

62.61

Gloeckner
New York, N.Y.

LIBRARY
RECEIVED
FEB 1 - 1954
U.S. Department of Agriculture

YEAR-AROUND
CHRYSANTHEMUM
MANUAL

1954

Gloeckner Chrysanthemum Manual

More and Better Chrysanthemums

During the past ten years more scientific investigations have been carried out with the chrysanthemum than with any other one flower.

Why should this flower deserve so much expensive attention? The answer is obvious: this plant is so versatile that it can be made to do most anything and yet produce a very profitable crop. These investigators are responsible for year-around flowering in both cut flowers and potted plants. They too found out how to produce three and even four crops in a period of a year. The environmental factors affecting the growth and flowering have all been investigated. Grading and marketing have been studied. Scientists have solved the majority of the disease and insect problems.

Yet there are many problems still not solved. Investigations will continue for a good number of years. We commercial men are also finding that our problems are not all solved. We have to grow more and better chrysanthemums with less expense. To accomplish this requires proper planning and selections of varieties for each particular area in the United States.

Your *Gloeckner* representatives have the scientific as well as the commercial experience to give you the service you wish in planning your requirements. They are all well versed in the culture of the chrysanthemum.

It is a *Gloeckner* service to make available the latest cultural information on this crop. Our interest in you and your crops by no means ends with the sale, as we are more than anxious to have the materials we sell, grow and prove profitable.

VARIETY INDEX

PAGE 97-98

TABLE OF CONTENTS

PAGE 99

PRICE TABLES

PAGE 92-93

COVER INDEX

The NEW MACHOL EDGE INDEX on the back cover of this year's Manual is there to help you locate the information you want quickly and efficiently. It is the first time such an index has been used in the Florist Industry, and we hope you will let us know if you like it or not.

Fred C.
Gloeckner
&
Company,
Incorporated

15 EAST 26th STREET

NEW YORK 10, N. Y.

(AT MADISON SQUARE)

LExington 2-4197

TERMS OF SALE

Fifty rooted cuttings of each variety is the minimum that can be supplied. More than 50 of a variety must be in multiples of 50.

Any changes or cancellations of chrysanthemum orders must be received at least 30 days before shipping date.

Every effort is being made to deliver stock which is free from pests, but purchases must be made with the understanding that we assume no responsibility for losses which may result from same.

To facilitate deliveries, cuttings will be shipped on Monday and Tuesday of each week.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

The Fred C. Gloeckner Co., Inc., warrants to the extent of the purchase price that seeds, bulbs and plants sold are as described on the container, within recognized tolerances. Seller gives no other or further warranty, express or implied.

Gloeckner Chrysanthemum Manual

Year-Around Flowering of Chrysanthemums

Since the advent of daylength and temperature control, we have seen chrysanthemum cut flowers on the markets every month since 1946, thanks to our never-tiring research workers in various federal and state institutions. Season has been eliminated, and the flowering time can be accurately controlled.

Response Group

Prior to year-around flowering of chrysanthemums, we referred to varieties as to their natural flowering date. Now that year-around flowering is in general use, we refer to a variety as to its response to short-day treat-

ment. When we say 9 week response, we mean that it will bloom 9 weeks after the short-day treatment is started. A 13-week group requires 13 weeks after short-day treatment is started, and so on with all the other response groups.

Daylength Control

When chrysanthemums are grown around the year, it is very necessary that we know when to apply shade or light to make the plants respond as we desire. The following schedule will give you the proper dates for lighting and shading for each response group.

YEAR-ROUND LIGHTING AND SHADING SCHEDULE

Response Group	Shading to Stop in Fall	Lighting to Start in Fall	Shading to Start in Spring	Lighting to Stop in Spring
7 week	Aug. 30	July 19	Apr. 12	May 31
8 week	Sept. 6	July 26	Apr. 5	May 24
9 week	Sept. 13	Aug. 2	Mar. 29	May 17
10 week	Sept. 20	Aug. 9	Mar. 22	May 10
11 week	Sept. 27	Aug. 16	Mar. 15	May 3
12 week	Oct. 4	Aug. 23	Mar. 8	Apr. 26
13 week	Oct. 11	Aug. 30	Mar. 1	Apr. 19
14 week	Oct. 18	Sept. 6	Feb. 23	Apr. 12

Lighting

To prevent formation of flower buds, the light intensity must be 10-foot candles.

When lighting an entire house, the lamps should be installed in the ridge of the house. Usually we figure that it requires $1\frac{1}{2}$ watts per sq. ft. of area covered; that includes benches and walks. For smaller installations, the spacing given below will be satisfactory for a bench 42 inches to 48 inches wide:

60-watt lamps in a reflector, spaced 4 feet apart,
2 to 3 feet above the tops of the plants.

100-watt lamps in a reflector, spaced 6 feet apart,
2 to 3 feet above the tops of the plants.

Lights must be used according to the schedule above. It has been found that best results are secured by interrupting the night. Begin lighting at 10 p.m. for the number of hours shown below:

ADDITIONAL LIGHTING SCHEDULE

- 2 Hours during the months of August, April and May.
- 3 Hours during the months of September, October and March.
- 4 Hours during the months of November and February.
- 5 Hours during the months of December and January.

Gloeckner Chrysanthemum Manual

Year-Around Flowering of Chrysanthemums

Shading

Use a good durable **Black Cloth** which when applied will reduce the light intensity to 2-foot candles or less. More light intensity than this will result in delayed flowering and unevenness of bloom.

The cloth should be applied at 5 p.m. and removed at 8 a.m. Continue covering each evening on pompons until the latest buds show color and most of the flowers are well developed. For large flowering varieties, shading can be discontinued after all flowering buds have attained the diameter of approximately one-half inch.

Be sure that covering is complete on all benches shaded, as any leaks in light will cause uneven spots in the bench at blooming time.

Black cloth should be applied each evening. Missing one night a week will give fair results, but delayed flowering results when cloth is not applied each evening.

Temperature Control

For bud formation, a minimum temperature of 60-65 degrees should be maintained. During the growing period, a night temperature near 60 degrees is ideal. When black cloth treatment is started, raise the night temperature to 60 degrees until color shows and then drop to 52 to 55 degrees. Excessive high temperatures prohibit the bud development, and during seasons of night temperatures above 90 degrees, it is suggested that the black cloth be raised after sunset and lowered again in the morning before daylight. This cooler temperature hastens the development of the buds.

Temperature regulation becomes a problem to the grower who is growing a single bench of chrysanthemums in a cool house. A simple method is to apply black cloth, allowing the cloth to drop to the floor on each side of the bench and then turn on the heat lines under the bench. This will trap the heat under the cloth and raise the temperature sufficiently to set buds.

Interrupted Lighting

You get quality when you control the spray formation in pompons. The control is easy and consists of inter-

rupting the lighting. It will give you no more work but does take a little more planning. The control gives you a spray with a more open head; the spray is more uniform; the flowers are larger, and the color is more intense.

In timing a crop which is to receive an interrupted-lighting treatment, we must start the short-day treatment earlier than normally, advancing the date by the number of long days which will be used to interrupt the short-day period. For example, if the short-day treatment were to start on January 15 and continue to flowering. The interrupted-lighting treatment is set up for 10 short days followed by 10 long days. Short days would be given the plants from January 5 to 15, followed by 10 long days until January 25 and then short days to flowering. Remember that the total number of long days is the same as given in the schedule.

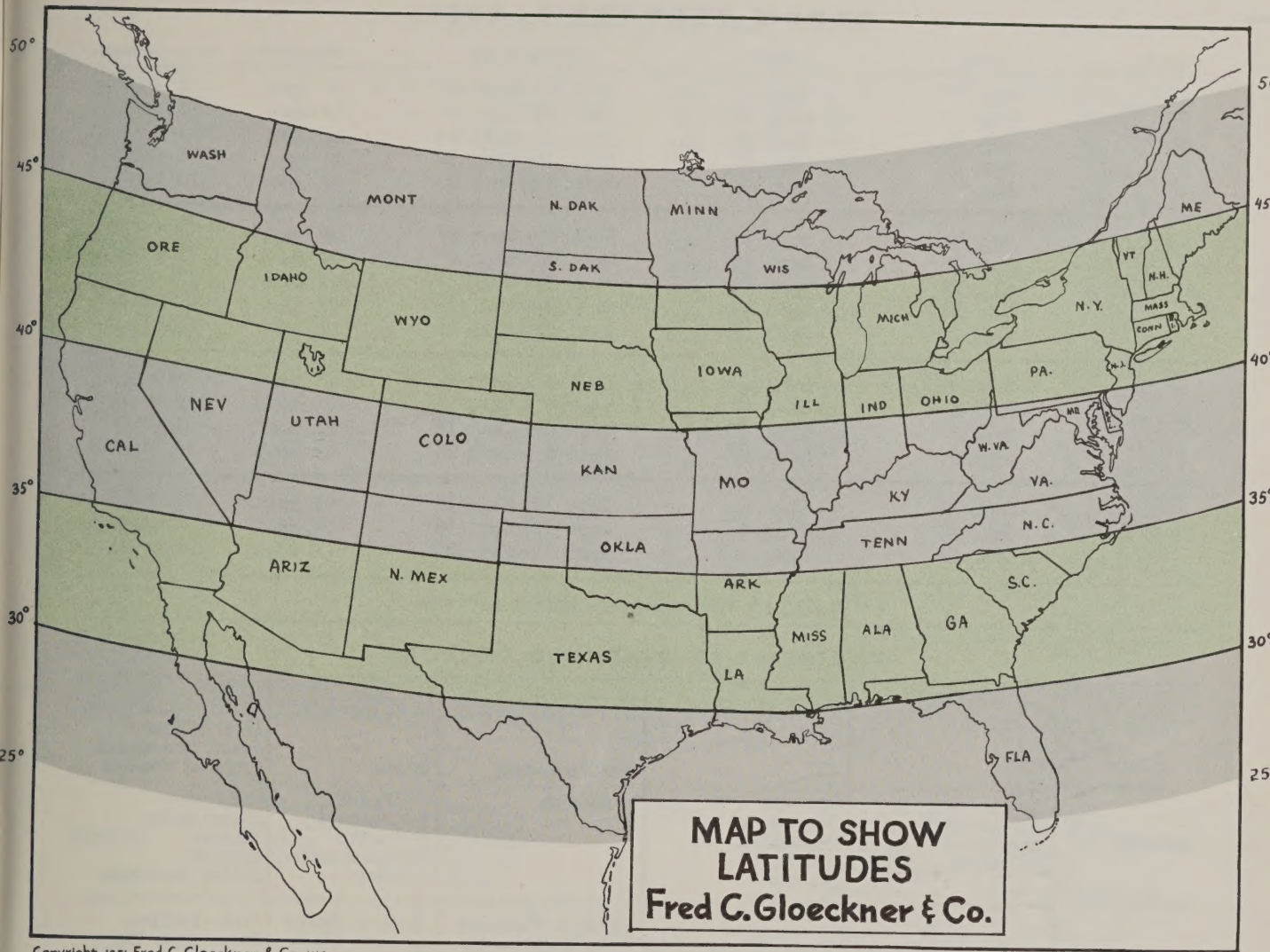
Use of Interrupted Lighting Only on 8, 9, and 10-Week Response Varieties

Week response	Number of short days followed by 10 long days
8 week	9 short days
9 week	10 short days
10 week	11 short days

An interrupted-lighting treatment of 10 short days, 10 long days, then short days to flowering has made it possible to improve the quality of pompons by improving the spray formation; now this same treatment can be used on certain standard varieties where quality is poor because of open centers. Best to try interrupted lighting on a limited scale until you know how to handle this treatment.

Much research on interrupted lighting is now being done to find the exact number of short days and long days for each response group. We feel that this information is very valuable for growers who are flowering 8, 9 and 10-week varieties during January, February and March in Florida.

Year-Around Flowering of Chrysanthemums



Fluorescent Tubes Lighting two Benches

Gloekner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 3, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 9	Aug. 30	Sept. 6 —Sept. 27	no	14 Week
	Aug. 9	Aug. 30	Aug. 30—Oct. 4	no	13 Week
	Aug. 9	Aug. 30	Aug. 23—Oct. 11	no	12 Week
	Aug. 9	Aug. 30	Aug. 16—Oct. 18	no	11 Week
	Aug. 9	Aug. 30	Aug. 9 —Oct. 25	no	10 Week
35-40°	Aug. 23	Sept. 13	Sept. 6 —Sept. 27	no	14 Week
	Aug. 23	Sept. 13	Aug. 30—Oct. 4	no	13 Week
	Aug. 23	Sept. 13	Aug. 23—Oct. 11	no	12 Week
	Aug. 23	Sept. 13	Aug. 23—Oct. 18	no	11 Week
	Aug. 23	Sept. 13	Aug. 23—Oct. 25	no	10 Week
30-35°	Sept. 6	Sept. 27	Sept. 6 —Oct. 4	no	13 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 11	no	12 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 18	no	11 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 25	no	10 Week
25-30°	Sept. 13	Oct. 4	Sept. 13—Oct. 11	no	12 Week
	Sept. 13	Oct. 4	Sept. 13—Oct. 18	no	11 Week
	Sept. 13	Oct. 4	Sept. 13—Oct. 25	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Illini Igloo Shasta Encore Little America
YELLOW	S		Golden Pearson Yel. Chattan'ga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcap Cr. Snowcrest Yel. Snowcrest Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Barcarole Or. Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Merrymaker	Yolanda Galaxy	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Mast'p'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Serrated Riviera Rosalind	Has. Pink	Brocade Almega	Linda Lou Rose Mast'p'ce Taffeta Portrait

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 10, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 16	Sept. 6	Sept. 6—Oct. 4	no	14 Week
	Aug. 16	Sept. 6	Aug. 30—Oct. 11	no	13 Week
	Aug. 16	Sept. 6	Aug. 23—Oct. 18	no	12 Week
	Aug. 16	Sept. 6	Aug. 16—Oct. 25	no	11 Week
	Aug. 16	Sept. 6	Aug. 16—Nov. 1	no	10 Week
35-40°	Aug. 30	Sept. 20	Sept. 6—Oct. 4	no	14 Week
	Aug. 30	Sept. 20	Aug. 30—Oct. 11	no	13 Week
	Aug. 30	Sept. 20	Aug. 30—Oct. 18	no	12 Week
	Aug. 30	Sept. 20	Aug. 30—Oct. 25	no	11 Week
	Aug. 30	Sept. 20	Aug. 30—Nov. 1	no	10 Week
30-35°	Sept. 13	Oct. 4	Sept. 13—Oct. 11	no	13 Week
	Sept. 13	Oct. 4	Sept. 13—Oct. 18	no	12 Week
	Sept. 13	Oct. 4	Sept. 13—Oct. 25	no	11 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 1	no	10 Week
25-30°	Sept. 20	Oct. 11	Sept. 20—Oct. 18	no	12 Week
	Sept. 20	Oct. 11	Sept. 20—Oct. 25	no	11 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 1	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Illini Igloo Shasta Encore Little America
YELLOW	S		Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcap Cr. Snowcrest Yel. Snowcrest Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Barcarole Or. Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Merrymaker	Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Yolanda Galaxy	Shalimar Thelma Festival
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Serrated Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel	Has. Pink	Brocade Almega
					Linda Lou Rose Mast'p'ce Taffeta Portrait

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 17, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 23	Sept. 13	Sept. 6 —Oct. 11	no	14 Week
	Aug. 23	Sept. 13	Aug. 30—Oct. 18	no	13 Week
	Aug. 23	Sept. 13	Aug. 23—Oct. 25	no	12 Week
	Aug. 23	Sept. 13	Aug. 23—Nov. 1	no	11 Week
	Aug. 23	Sept. 13	Aug. 23—Nov. 8	no	10 Week
35-40°	Sept. 6	Sept. 27	Sept. 6 —Oct. 11	no	14 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 18	no	13 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 25	no	12 Week
	Sept. 6	Sept. 27	Sept. 6 —Nov. 1	no	11 Week
	Sept. 6	Sept. 27	Sept. 6 —Nov. 8	no	10 Week
30-35°	Sept. 20	Oct. 11	Sept. 20—Oct. 18	no	13 Week
	Sept. 20	Oct. 11	Sept. 20—Oct. 25	no	12 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 1	no	11 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 8	no	10 Week
25-30°	Sept. 27	Oct. 18	Sept. 27—Oct. 25	no	12 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 1	no	11 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 8	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Illini Igloo Shasta Encore Little America
YELLOW	S		Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcap Cr. Snowcrest Yel. Snowcrest Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Barcarole Or. Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Merrymaker	Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Mast'p'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Serrated Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel	Has. Pink	Brocade Almega
					Linda Lou Rose Mast'p'ce Taffeta Portrait

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 24, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 30	Sept. 20	Sept. 6 —Oct. 18	no	14 Week
	Aug. 30	Sept. 20	Aug. 30—Oct. 25	no	13 Week
	Aug. 30	Sept. 20	Aug. 30—Nov. 1	no	12 Week
	Aug. 30	Sept. 20	Aug. 30—Nov. 8	no	11 Week
	Aug. 30	Sept. 20	Aug. 30—Nov. 15	no	10 Week
35-40°	Sept. 13	Oct. 4	Sept. 13—Oct. 18	no	14 Week
	Sept. 13	Oct. 4	Sept. 13—Oct. 25	no	13 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 1	no	12 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 8	no	11 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 15	no	10 Week
30-35°	Sept. 27	Oct. 18	Sept. 27—Oct. 25	no	13 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 1	no	12 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 8	no	11 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 15	no	10 Week
25-30°	Oct. 4	Oct. 25	Oct. 4 —Nov. 1	no	12 Week
	Oct. 4	Oct. 25	Oct. 4 —Nov. 8	no	11 Week
	Oct. 4	Oct. 25	Oct. 4 —Nov. 15	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Melo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S		Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Melo Cream Melo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Gold. Chord Forty-Niner Lollipop Pippin Yel. Param't	Barcarole Or. Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Or. Queen
	P	Br. Riviera Merrymaker	Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Mast'p'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Serrated Riviera Rosalind	Debutante Minstrel Li. Pk. Minstrel	Has. Pink Brocade Almega	Portrait Linda Lou Rose Mast'p'ce Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 31, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 6	Sept. 27	Sept. 6 —Oct. 25	no	14 Week
	Sept. 6	Sept. 27	Sept. 6 —Nov. 1	no	13 Week
	Sept. 6	Sept. 27	Sept. 6 —Nov. 8	no	12 Week
	Sept. 6	Sept. 27	Sept. 6 —Nov. 15	no	11 Week
	Sept. 6	Sept. 27	Sept. 6 —Nov. 22	no	10 Week
35-40°	Sept. 20	Oct. 11	Sept. 20—Oct. 25	no	14 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 1	no	13 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 8	no	12 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 15	no	11 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 22	no	10 Week
30-35°	Oct. 4	Oct. 25	Oct. 4 —Nov. 1	no	13 Week
	Oct. 4	Oct. 25	Oct. 4 —Nov. 8	no	12 Week
	Oct. 4	Oct. 25	Oct. 4 —Nov. 15	no	11 Week
	Oct. 4	Oct. 25	Oct. 4 —Nov. 22	no	10 Week
25-30°	Oct. 11	Nov. 1	Oct. 11—Nov. 8	no	12 Week
	Oct. 11	Nov. 1	Oct. 11—Nov. 15	no	11 Week
	Oct. 11	Nov. 1	Oct. 11—Nov. 22	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Safellite	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S		Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Barcarole Or. Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Merrymaker	Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Mast'p'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Serrated Riviera Rosalind	Debutante Minstrel Li. Pk. Minstrel	Brocade Almega	Portrait Linda Lou Rose Mast'p'ce Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 7, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 13	Oct. 4	Sept. 13—Nov. 1	no	14 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 8	no	13 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 15	no	12 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 22	no	11 Week
	Sept. 13	Oct. 4	Sept. 13—Nov. 29	no	10 Week
35-40°	Sept. 27	Oct. 18	Sept. 27—Nov. 8	no	13 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 15	no	12 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 22	no	11 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 29	no	10 Week
30-35°	Oct. 11	Nov. 1	Oct. 11—Nov. 8	no	13 Week
	Oct. 11	Nov. 1	Oct. 11—Nov. 15	no	12 Week
	Oct. 11	Nov. 1	Oct. 11—Nov. 22	no	11 Week
	Oct. 11	Nov. 1	Oct. 11—Nov. 29	no	10 Week
25-30°	Oct. 18	Nov. 8	Oct. 18—Nov. 15	no	12 Week
	Oct. 18	Nov. 8	Oct. 18—Nov. 22	no	11 Week
	Oct. 18	Nov. 8	Oct. 18—Nov. 29	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S		Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Brandywine Yellow Cameo Cinderella Goldtone Corsair	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Param't
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Merrymaker	Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Yolanda Galaxy	Shalimar Thelma Festival
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Serrated Riviera Rosalind	Debutante Minstrel Li. Pk. Minstrel	Has. Pink	Brocade Almega
					Portrait Linda Lou Rose Mast'p'ce Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 14, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 20	Oct. 11	Sept. 20—Nov. 8	no	14 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 15	no	13 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 22	no	12 Week
	Sept. 20	Oct. 11	Sept. 20—Nov. 29	no	11 Week
	Sept. 20	Oct. 11	Sept. 20—Dec. 6	no	10 Week
35-40°	Oct. 4	Oct. 25	Oct. 4—Nov. 15	no	13 Week
	Oct. 4	Oct. 25	Oct. 4—Nov. 22	no	12 Week
	Oct. 4	Oct. 25	Oct. 4—Nov. 29	no	11 Week
	Oct. 4	Oct. 25	Oct. 4—Dec. 6	no	10 Week
30-35°	Oct. 18	Nov. 8	Oct. 18—Nov. 15	no	13 Week
	Oct. 18	Nov. 8	Oct. 18—Nov. 22	no	12 Week
	Oct. 18	Nov. 8	Oct. 18—Nov. 29	no	11 Week
	Oct. 18	Nov. 8	Oct. 18—Dec. 6	no	10 Week
25-30°	Oct. 25	Nov. 15	Oct. 25—Nov. 22	no	12 Week
	Oct. 25	Nov. 15	Oct. 25—Nov. 29	no	11 Week
	Oct. 25	Nov. 15	Oct. 25—Dec. 6	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S		Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Barcarole Or. Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Merrymaker	Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Mast'p'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Serrated Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel	Has. Pink	Brocade Almega
					Portrait Linda Lou Rose Mast'p'ce Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 21, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 27	Oct. 18	Sept. 27—Nov. 22	no	13 Week
	Sept. 27	Oct. 18	Sept. 27—Nov. 29	no	12 Week
	Sept. 27	Oct. 18	Sept. 27—Dec. 6	no	11 Week
	Sept. 27	Oct. 18	Sept. 27—Dec. 13	no	10 Week
35-40°	Oct. 11	Nov. 1	Oct. 11—Nov. 22	no	13 Week
	Oct. 11	Nov. 1	Oct. 11—Nov. 29	no	12 Week
	Oct. 11	Nov. 1	Oct. 11—Dec. 6	no	11 Week
	Oct. 11	Nov. 1	Oct. 11—Dec. 13	no	10 Week
30-35°	Oct. 25	Nov. 15	Oct. 25—Nov. 22	no	13 Week
	Oct. 25	Nov. 15	Oct. 25—Nov. 29	no	12 Week
	Oct. 25	Nov. 15	Oct. 25—Dec. 6	no	11 Week
	Oct. 25	Nov. 15	Oct. 25—Dec. 13	no	10 Week
25-30°	Nov. 1	Nov. 22	Nov. 1—Nov. 29	no	12 Week
	Nov. 1	Nov. 22	Nov. 1—Dec. 6	no	11 Week
	Nov. 1	Nov. 22	Nov. 1—Dec. 13	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P Cameo Acclaim Cotillion Carrara Yukon	Monarch	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S	Golden Pearson Yel. Chattanooga Dk. Yel. Chattan'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Brandywine Yellow Cameo Cinderella	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Or. Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orch. Queen
	P Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Yolanda Galaxy	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Mast'piece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P Debutante Minstrel Lt. Pk. Minstrel	Has. Pink	Brocade Almega	Portrait Linda Lou Rose Masterpiece Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 28, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 4	Oct. 25	Oct. 4 —Dec. 6	no	12 Week
	Oct. 4	Oct. 25	Oct. 4 —Dec. 13	no	11 Week
	Oct. 4	Oct. 25	Oct. 4 —Dec. 20	no	10 Week
35-40°	Oct. 18	Nov. 8	Oct. 18—Dec. 6	no	12 Week
	Oct. 18	Nov. 8	Oct. 18—Dec. 13	no	11 Week
	Oct. 18	Nov. 8	Oct. 18—Dec. 20	no	10 Week
30-35°	Nov. 1	Nov. 22	Nov. 1 —Dec. 6	no	12 Week
	Nov. 1	Nov. 22	Nov. 1 —Dec. 13	no	11 Week
	Nov. 1	Nov. 22	Nov. 1 —Dec. 20	no	10 Week
25-30°	Nov. 8	Nov. 29	Nov. 8 —Dec. 6	no	12 Week
	Nov. 8	Nov. 29	Nov. 8 —Dec. 13	no	11 Week
	Nov. 8	Nov. 29	Nov. 8 —Dec. 20	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
WHITE	S		Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Monarch Wh. Valencia	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S	Golden Pearson	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Goldenrod Highlander Yel. Valencia Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Orange Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Yolanda Apr. Valencia Galaxy	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen Orchid Queen
	P	Has. Pink Valencia Dark Valencia	Brocade Almega	Portrait Linda Lou Rose Masterpiece Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 7, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 11	Nov. 1	Oct. 11—Dec. 13	no	12 Week
	Oct. 11	Nov. 1	Oct. 11—Dec. 20	no	11 Week
	Oct. 11	Nov. 1	Oct. 11—Dec. 27	no	10 Week
35-40°	Oct. 25	Nov. 15	Oct. 25—Dec. 13	no	12 Week
	Oct. 25	Nov. 15	Oct. 25—Dec. 20	no	11 Week
	Oct. 25	Nov. 15	Oct. 25—Dec. 27	no	10 Week
30-35°	Nov. 8	Nov. 29	Nov. 8 —Dec. 13	no	12 Week
	Nov. 8	Nov. 29	Nov. 8 —Dec. 20	no	11 Week
	Nov. 8	Nov. 29	Nov. 8 —Dec. 27	no	10 Week
25-30°	Nov. 15	Dec. 6	Nov. 15—Dec. 13	no	12 Week
	Nov. 15	Dec. 6	Nov. 15—Dec. 20	no	11 Week
	Nov. 15	Dec. 6	Nov. 15—Dec. 27	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
WHITE	S		Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Monarch Wh. Valencia	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S	Golden Pearson	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Goldenrod Highlander Yel. Valencia Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Orange Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Yolanda Apr. Valencia Galaxy	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen Orchid Queen
	P	Has. Pink Valencia Dark Valencia	Brocade Almega	Portrait Linda Lou Rose Masterpiece Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 14, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 18	Nov. 8	Oct. 18—Dec. 20	no	12 Week
	Oct. 18	Nov. 8	Oct. 18—Dec. 27	no	11 Week
	Oct. 18	Nov. 8	Oct. 18—Jan. 3	no	10 Week
35-40°	Nov. 1	Nov. 22	Nov. 1 —Dec. 20	no	12 Week
	Nov. 1	Nov. 22	Nov. 1 —Dec. 27	no	11 Week
	Nov. 1	Nov. 22	Nov. 1 —Jan. 3	no	10 Week
30-35°	Nov. 15	Dec. 6	Nov. 15—Dec. 20	no	12 Week
	Nov. 15	Dec. 6	Nov. 15—Dec. 27	no	11 Week
	Nov. 15	Dec. 6	Nov. 15—Jan. 6	no	10 Week
25-30°	Nov. 22	Dec. 13	Nov. 22—Dec. 20	no	12 Week
	Nov. 22	Dec. 13	Nov. 22—Dec. 27	no	11 Week
	Nov. 22	Dec. 13	Nov. 22—Jan. 3	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
White	S		Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Monarch Wh. Valencia	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Ilini Igloo Shasta Little America
YELLOW	S	Golden Pearson	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Goldenrod Highlander Yel. Valencia Omega Yel. Galaxy	Lollipop Pippin Yel. Paramount	Barcarole Orange Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Yolanda Apr. Valencia Galaxy	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen Orchid Queen
	P	Has. Pink Valencia Dark Valencia	Brocade Almega	Portrait Linda Lou Rose Masterpiece Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 21, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 25	Nov. 15	Oct. 25—Dec. 27	no	12 Week
	Oct. 25	Nov. 15	Oct. 25—Jan. 3	no	11 Week
	Oct. 25	Nov. 15	Oct. 25—Jan. 10	no	10 Week
35-40°	Nov. 8	Nov. 29	Nov. 8 —Dec. 27	no	12 Week
	Nov. 8	Nov. 29	Nov. 8 —Jan. 3	no	11 Week
	Nov. 8	Nov. 29	Nov. 8 —Jan. 10	no	10 Week
30-35°	Nov. 15	Dec. 13	Nov. 15—Dec. 27	no	12 Week
	Nov. 15	Dec. 13	Nov. 15—Jan. 3	no	11 Week
	Nov. 15	Dec. 13	Nov. 15—Jan. 10	no	10 Week
25-30°	Nov. 29	Dec. 20	Nov. 29—Dec. 27	no	12 Week
	Nov. 29	Dec. 20	Nov. 29—Jan. 3	no	11 Week
	Nov. 29	Dec. 20	Nov. 29—Jan. 10	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
White	S		Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Monarch Wh. Valencia	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S	Golden Pearson	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Goldenrod Highlander Yel. Valencia Omega Yel. Galaxy	Lollipop Pippin Yel. Paramount	Barcarole Orange Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Yolanda Apr. Valencia Galaxy	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen Orchid Queen
	P	Has. Pink Valencia Dark Valencia	Brocade Almega	Portrait Linda Lou Rose Masterpiece Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 28, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 1	Nov. 22	Nov. 1 —Jan. 3	no	12 Week
	Nov. 1	Nov. 22	Nov. 1 —Jan. 10	no	11 Week
	Nov. 1	Nov. 22	Nov. 1 —Jan. 17	no	10 Week
35-40°	Nov. 15	Dec. 6	Nov. 15—Jan. 3	no	12 Week
	Nov. 15	Dec. 6	Nov. 15—Jan. 10	no	11 Week
	Nov. 15	Dec. 6	Nov. 15—Jan. 17	no	10 Week
30-35°	Nov. 22	Dec. 20	Nov. 22—Jan. 3	no	12 Week
	Nov. 22	Dec. 20	Nov. 22—Jan. 10	no	11 Week
	Nov. 22	Dec. 20	Nov. 22—Jan. 17	no	10 Week
25-30°	Dec. 6	Dec. 27	Dec. 6 —Jan. 3	no	12 Week
	Dec. 6	Dec. 27	Dec. 6 —Jan. 10	no	11 Week
	Dec. 6	Dec. 27	Dec. 6 —Jan. 17	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
White	S		Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Monarch Wh. Valencia	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America
YELLOW	S	Golden Pearson	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Ind. Imp. Yellow Yellow Queen
	P	Goldenrod Highlander Yel. Valencia Omega Yel. Galaxy	Lollipop Pippin Yel. Paramount	Barcarole Orange Beauregard Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Yolanda Apr. Valencia Galaxy	Shalimar Thelma Festival	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen Orchid Queen
	P	Has. Pink Valencia Dark Valencia	Brocade Almega	Portrait Linda Lou Rose Masterpiece Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 4, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 8	Nov. 29	Nov. 8 —Jan. 17	no	11 Week
	Nov. 8	Nov. 29	Nov. 8 —Jan. 24	no	10 Week
	Nov. 8	Nov. 29	Nov. 8 —Jan. 31	no	9 Week
35-40°	Nov. 15	Dec. 13	Nov. 15—Jan. 17	no	11 Week
	Nov. 15	Dec. 13	Nov. 15—Jan. 24	no	10 Week
	Nov. 15	Dec. 13	Nov. 15—Jan. 31	no	9 Week
30-35°	Nov. 29	Dec. 27	Nov. 29—Jan. 17	no	11 Week
	Nov. 29	Dec. 27	Nov. 29—Jan. 24	no	10 Week
	Nov. 29	Dec. 27	Nov. 29—Jan. 31	no	9 Week
25-30°	Dec. 13	Jan. 3	Dec. 13—Jan. 17	no	11 Week
	Dec. 13	Jan. 3	Dec. 13—Jan. 24	no	10 Week
	Dec. 13	Jan. 3	Dec. 13—Jan. 31	no	9 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week
WHITE	S	Mefo	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace
	P	Sculpture Highbrow Priscilla Paramount Belray	Whitetop Illini Igloo Shasta Little America Pacesetter	Keepsake Halo Silver Cloud
YELLOW	S	Cream Mefo Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow	Gold Lace Yellow Lace Good News
	P	Lollipop Pippin Yel. Paramount	Barcarole Orange Beauregard Yellow Shasta	Starlight Golden Herald Gold Coast Aztec Mary L. Hall Sunray
BRONZE & RED	S		Ind. Bronze	Detroit News Nomago
	P	Shalimar Thelma	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece	Gaiety Buckskin Buccaneer
PINK	S		Ind. Pink Dk. Orchid Queen Orchid Queen	
	P	Almega	Portrait Linda Lou Rose Masterpiece Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 11, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 15	Dec. 6	Nov. 15—Jan. 24	Mar. 14	11 Week
	Nov. 15	Dec. 6	Nov. 15—Jan. 31	no	10 Week
	Nov. 15	Dec. 6	Nov. 15—Feb. 7	no	9 Week
35-40°	Nov. 22	Dec. 20	Nov. 22—Jan. 24	Mar. 14	11 Week
	Nov. 22	Dec. 20	Nov. 22—Jan. 31	no	11 Week
	Nov. 22	Dec. 20	Nov. 22—Feb. 7	no	9 Week
30-35°	Dec. 6	Jan. 3	Dec. 6 —Jan. 24	Mar. 14	11 Week
	Dec. 6	Jan. 3	Dec. 6 —Jan. 31	no	10 Week
	Dec. 6	Jan. 3	Dec. 6 —Feb. 7	no	9 Week
25-30°	Dec. 20	Jan. 10	Dec. 20—Jan. 24	Mar. 14	11 Week
	Dec. 20	Jan. 10	Dec. 20—Jan. 31	no	10 Week
	Dec. 20	Jan. 10	Dec. 20—Feb. 7	no	9 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week
WHITE	S Mefo	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace
	P Sculpture Highbrow Priscilla Paramount Belray	Whitetop Illini Igloo Shasta Little America Pacesetter	Keepsake Halo Silver Cloud
YELLOW	S Cream Mefo Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow	Gold Lace Yellow Lace Good News
	P Lollipop Pippin Yel. Paramount	Barcarole Orange Beauregard Yellow Shasta	Starlight Golden Herald Gold Coast Aztec Mary L. Hall Sunray
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago
	P Shalimar Thelma	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece	Gaiety Buckskin Buccaneer
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen	
	P Almega	Portrait Linda Lou Rose Masterpiece Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow

S—Standard

P—Pompon

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 18, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 22	Dec. 20	Nov. 22—Jan. 31	Mar. 14	11 Week
	Nov. 22	Dec. 20	Nov. 22—Feb. 7	Mar. 21	10 Week
	Nov. 22	Dec. 20	Nov. 22—Feb. 14	Mar. 28	9 Week
35-40°	Dec. 6	Jan. 3	Dec. 6—Jan. 31	Mar. 14	11 Week
	Dec. 6	Jan. 3	Dec. 6—Feb. 7	Mar. 21	10 Week
	Dec. 6	Jan. 3	Dec. 6—Feb. 14	Mar. 28	9 Week
30-35°	Dec. 13	Jan. 10	Dec. 13—Feb. 7	Mar. 21	10 Week
	Dec. 13	Jan. 10	Dec. 13—Feb. 14	Mar. 28	9 Week
	Dec. 13	Jan. 10	Dec. 13—Feb. 21	no	8 Week
25-30°	Dec. 27	Jan. 17	Dec. 27—Feb. 7	Mar. 21	10 Week
	Dec. 27	Jan. 17	Dec. 27—Feb. 14	Mar. 28	9 Week
	Dec. 27	Jan. 17	Dec. 27—Feb. 21	no	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week	8 Week
WHITE	S Mefo	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P Sculpture Highbrow Priscilla Paramount Belray	Whitetop Pacesetter Illini Igloo Shasta Little America	Keepsake Halo Silver Cloud	Pristine
YELLOW	S Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P Lollipop Pippin Yel. Paramount	Barcarole Or. Beauregard Yellow Shasta	Starlight Golden Herald Gold Coast Aztec Mary L. Hall Sunray	Creampuff
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P Shalimar Thelma	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece	Gaiety Buckskin Buccaneer	James Stewart Talisman
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen		
	P Almega	Portrait Linda Lou Rose Masterpiece Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirih Mary McArthur

S—Standard

P—Pompon

Gloekner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 25, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 29	Dec. 27	Nov. 29—Feb. 7	Mar. 14	11 Week
	Nov. 29	Dec. 27	Nov. 29—Feb. 14	Mar. 21	10 Week
	Nov. 29	Dec. 27	Nov. 29—Feb. 21	Mar. 28	9 Week
35-40°	Dec. 13	Jan. 10	Dec. 13—Feb. 7	Mar. 14	11 Week
	Dec. 13	Jan. 10	Dec. 13—Feb. 14	Mar. 21	10 Week
	Dec. 13	Jan. 10	Dec. 13—Feb. 21	Mar. 28	9 Week
30-35°	Dec. 20	Jan. 17	Dec. 20—Feb. 14	Mar. 21	10 Week
	Dec. 20	Jan. 17	Dec. 20—Feb. 21	Mar. 28	9 Week
	Dec. 20	Jan. 17	Dec. 20—Feb. 28	Apr. 4	8 Week
25-30°	Jan. 3	Jan. 24	Jan. 3 —Feb. 14	Mar. 21	10 Week
	Jan. 3	Jan. 24	Jan. 3 —Feb. 21	Mar. 28	9 Week
	Jan. 3	Jan. 24	Jan. 3 —Feb. 28	Apr. 4	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	11. Week.	10 Week	9 Week	8 Week
WHITE	S Mefo	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P Sculpture Highbrow Priscilla Paramount Belray	Whitetop Pacesetter Illini Igloo Shasta Little America	Keepsake Halo Silver Cloud	Pristine
YELLOW	S Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P Lollipop Pippin Yel. Paramount	Barcarole Or. Beauregard Yellow Shasta	Starlight Golden Herald Gold Coast Aztec Mary L. Hall Sunray	Creampuff
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P Shalimar Thelma	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece	Gaiety Buckskin Buccaneer	James Stewart Talisman
PINK	S	Ind. Pink. Dk. Orchid Queen Orchid Queen		
	P Almega	Portrait Linda Lou Rose Masterpiece Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirih Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MAY 2, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Dec. 13	Jan. 10	Dec. 13—Feb. 21	Mar. 21	10 Week
	Dec. 13	Jan. 10	Dec. 13—Feb. 28	Mar. 28	9 Week
	Dec. 13	Jan. 10	Dec. 13—Mar. 7	Apr. 4	8 Week
35-40°	Dec. 20	Jan. 17	Dec. 20—Feb. 21	Mar. 21	10 Week
	Dec. 20	Jan. 17	Dec. 20—Feb. 28	Mar. 28	9 Week
	Dec. 20	Jan. 17	Dec. 20—Mar. 7	Apr. 4	8 Week
30-35°	Dec. 27	Jan. 24	Dec. 27—Feb. 21	Mar. 21	10 Week
	Dec. 27	Jan. 24	Dec. 27—Feb. 28	Mar. 28	9 Week
	Dec. 27	Jan. 24	Dec. 27—Mar. 7	Apr. 4	8 Week
25-30°	Jan. 10	Jan. 31	Jan. 10—Feb. 21	Mar. 21	10 Week
	Jan. 10	Jan. 31	Jan. 10—Feb. 28	Mar. 28	9 Week
	Jan. 10	Jan. 31	Jan. 10—Mar. 7	Apr. 4	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P	Freedom Whitetop Pacesetter Illini Igloo Shasta Little America Madonna Illini Snowdrift	White Popcorn Keepsake Pinocchio Halo Silver Cloud	Pristine
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Orange Beauregard Golden Mensa Yellow Shasta	Starlight Golden Herald Gold Coast Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray Honeymoon	Creampuff
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece Cadet	Gaiety Buckskin Buccaneer	James Stewart Talisman
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen		
	P	Portrait Dk. Linda Lou Rose Masterpiece Taffeta Nobility	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirih Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MAY 9, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Dec. 20	Jan. 17	Dec. 20—Feb. 28	Mar. 21	10 Week
	Dec. 20	Jan. 17	Dec. 20—Mar. 7	Mar. 28	9 Week
	Dec. 20	Jan. 17	Dec. 20—Mar. 14	Apr. 4	8 Week
35-40°	Dec. 27	Jan. 24	Dec. 27—Feb. 28	Mar. 21	10 Week
	Dec. 27	Jan. 24	Dec. 27—Mar. 7	Mar. 28	9 Week
	Dec. 27	Jan. 24	Dec. 27—Mar. 14	Apr. 4	8 Week
30-35°	Jan. 3	Jan. 31	Jan. 3 —Feb. 28	Mar. 21	10 Week
	Jan. 3	Jan. 31	Jan. 3 —Mar. 7	Mar. 28	9 Week
	Jan. 3	Jan. 31	Jan. 3 —Mar. 14	Apr. 4	8 Week
25-30°	Jan. 17	Feb. 7	Jan. 17—Feb. 28	Mar. 21	10 Week
	Jan. 17	Feb. 7	Jan. 17—Mar. 7	Mar. 28	9 Week
	Jan. 17	Feb. 7	Jan. 17—Mar. 14	Apr. 4	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P	Freedom Whitetop Pacesetter Illini Igloo Shasta Little America Madonna Illini Snowdrift	White Popcorn Keepsake Pinocchio Halo Silver Cloud	Pristine
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Orange Beauregard Golden Mensa Yellow Shasta	Starlight Golden Herald Gold Coast Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray Honeymoon	Creampuff
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece Cadet	Gaiety Buckskin Buccaneer	James Stewart Talisman
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen		
	P	Portrait Dk. Linda Lou Rose Masterpiece Taffeta Nobility	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirth Mary McArthur

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MAY 17, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Jan. 4	Feb. 1	Jan. 4 —Mar. 8	Mar. 22	10 Week
	Jan. 4	Feb. 1	Jan. 4 —Mar. 15	Mar. 29	9 Week
	Jan. 4	Feb. 1	Jan. 4 —Mar. 22	Apr. 5	8 Week
35-40°	Jan. 11	Feb. 8	Jan. 11—Mar. 8	Mar. 22	10 Week
	Jan. 11	Feb. 8	Jan. 11—Mar. 15	Mar. 29	9 Week
	Jan. 11	Feb. 8	Jan. 11—Mar. 22	Apr. 5	8 Week
25-35°	Jan. 25	Feb. 15	Jan. 25—Mar. 8	Mar. 22	10 Week
	Jan. 25	Feb. 15	Jan. 25—Mar. 15	Mar. 29	9 Week
	Jan. 25	Feb. 15	Jan. 25—Mar. 22	Apr. 5	8 Week

BLOOM MAY 24, 1954

40-45°	Jan. 11	Feb. 8	Jan. 11—Mar. 15	Mar. 22	10 Week
	Jan. 11	Feb. 8	Jan. 11—Mar. 22	Mar. 29	9 Week
	Jan. 11	Feb. 8	Jan. 11—Mar. 29	Apr. 5	8 Week
35-40°	Jan. 18	Feb. 15	Jan. 18—Mar. 15	Mar. 22	10 Week
	Jan. 18	Feb. 15	Jan. 18—Mar. 22	Mar. 29	9 Week
	Jan. 18	Feb. 15	Jan. 18—Mar. 29	Apr. 5	8 Week
25-35°	Feb. 1	Feb. 22	Feb. 1 —Mar. 15	Mar. 22	10 Week
	Feb. 1	Feb. 22	Feb. 1 —Mar. 22	Mar. 29	9 Week
	Feb. 1	Feb. 22	Feb. 1 —Mar. 29	Apr. 5	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P	Freedom Whitetop White Mensa Pacesetter Illini Igloo Shasta Little America Madonna Illini Snowdrift	White Popcorn Keepsake Pinocchio Halo Silver Cloud	Pristine
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Orange Beauregard Golden Mensa Yellow Shasta	Starlight Golden Herald Gold Coast Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray Honeymoon	Creampuff
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece Cadet	Gaiety Buckskin Buccaneer	James Stewart Talisman
PINK	S	Ind. Pink Dk. Orchid Queen	Mary Garden	
	P	Portrail Dk. Linda Lou Rose Masterpiece Taffeta Nobility	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirth Mary McArthur

S—Standard

P—Pinchon

Gloekner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM MAY 31, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Jan. 25	Feb. 22	Jan. 25—Mar. 22	Mar. 22	10 Week
	Jan. 25	Feb. 22	Jan. 25—Mar. 29	Mar. 29	9 Week
	Jan. 25	Feb. 22	Jan. 25—Apr. 5	Apr. 5	8 Week
25-40°	Feb. 8	Mar. 1	Feb. 8 —Mar. 22	Mar. 22	10 Week
	Feb. 8	Mar. 1	Feb. 8 —Mar. 29	Mar. 29	9 Week
	Feb. 8	Mar. 1	Feb. 8 —Apr. 5	Apr. 5	8 Week

BLOOM JUNE 7, 1954

40-45°	Feb. 1	Mar. 1	Feb. 1 —Mar. 29	Mar. 29	10 Week
	Feb. 1	Mar. 1	Feb. 1 —Apr. 5	Apr. 5	9 Week
	Feb. 1	Mar. 1	Feb. 1 —Apr. 12	Apr. 12	8 Week
25-40°	Feb. 15	Mar. 8	Feb. 15—Mar. 29	Mar. 29	10 Week
	Feb. 15	Mar. 8	Feb. 15—Apr. 5	Apr. 5	9 Week
	Feb. 15	Mar. 8	Feb. 15—Apr. 12	Apr. 12	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P	Freedom Whitetop White Mensa Pacesetter Illini Igloo Shasia Little America Madonna Illini Snowdrift	White Popcorn Keepsake Pinocchio Halo Silver Cloud	Pristine
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Orange Beauregard Golden Mensa Yellow Shasta	Starlight Golden Herald Gold Coast Sunup Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray Honeymoon	Creampuff
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Beauregard Rubicon Chevron Br. Linda Lou Dk. Br. Masterpiece Cadef	Gaiety Buckskin Buccaneer	James Stewart Talisman
PINK	S	Ind. Pink Dk. Orchid Queen	Mary Garden	
	P	Portrait Dk. Linda Lou Rose Masterpiece Taffeta Nobility	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirih Mary McArthur

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JUNE 14, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Feb. 22	Mar. 15	Feb. 22—Apr. 5	Apr. 5	10 Week
	Feb. 22	Mar. 15	Feb. 22—Apr. 12	Apr. 12	9 Week
	Feb. 22	Mar. 15	Feb. 22—Apr. 19	Apr. 19	8 Week

BLOOM JUNE 21, 1954

25-45°	Mar. 1	Mar. 22	Mar. 1 —Apr. 12	Apr. 12	10 Week
	Mar. 1	Mar. 22	Mar. 1 —Apr. 19	Apr. 19	9 Week
	Mar. 1	Mar. 22	Mar. 1 —Apr. 26	Apr. 26	8 Week

BLOOM JUNE 28, 1954

25-45°	Mar. 8	Mar. 29	Mar. 8 —Apr. 19	Apr. 19	10 Week
	Mar. 8	Mar. 29	Mar. 8 —Apr. 26	Apr. 26	9 Week
	Mar. 8	Mar. 29	Mar. 8 —May 3	May 3	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace Albatross	Silver Sheen
	P	Freedom Whitetop Madonna White Mensa Pacesetter Illini Igloo Shasta Illini Snowdrift	White Popcorn Keepsake Pinocchio Songster Halo Silver Cloud	Pristine
YELLOW	S	Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Orange Beauregard Golden Mensa Yellow Shasta	Starlight Golden Herald Gold Coast Sunup Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray Honeymoon	Creampuff
BRONZE & RED	P	Beauregard Cadet	Gaiety Buckskin	James Stewart Talisman
PINK	P	Portrait Dk. Linda Lou	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirih Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JULY 5, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Mar. 15	Apr. 5	Mar. 15—Apr. 26	Apr. 26	10 Week
	Mar. 15	Apr. 5	Mar. 15—May 3	May 3	9 Week
	Mar. 15	Apr. 5	Mar. 15—May 10	May 10	8 Week

BLOOM JULY 12, 1954

25-45°	Mar. 22	Apr. 12	Mar. 22—May 3	May 3	10 Week
	Mar. 22	Apr. 12	Mar. 22—May 10	May 10	9 Week
	Mar. 22	Apr. 12	Mar. 22—May 17	May 17	8 Week

BLOOM JULY 19, 1954

25-45°	Mar. 29	Apr. 19	Mar. 29—May 10	May 10	10 Week
	Mar. 29	Apr. 19	Mar. 29—May 17	May 17	9 Week
	Mar. 29	Apr. 19	Mar. 29—May 24	May 24	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace Albatross	Silver Sheen
	P	Freedom Whitetop Madonna White Mensa Pacesetter Shasta Illini Snowdrift	White Popcorn Keepsake Pinocchio Songster Halo Silver Cloud	Pristine
YELLOW	S	Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Orange Beauregard Golden Mensa Yellow Shasta	Starlight Golden Herald Gold Coast Sunup Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray	Creampuff
BRONZE & RED	P	Beauregard Cadet	Buckskin	James Stewart Talisman
PINK	P	Dk. Linda Lou Portrait	Reward Pink Dot Rainbow	Mayfair Mirih Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM JULY 26, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Apr. 5	Apr. 26	Apr. 5 — May 10	May 17	10 Week
	Apr. 5	Apr. 26	Apr. 5 — May 17	May 24	9 Week
	Apr. 5	Apr. 26	Apr. 5 — May 24	May 31	8 Week

BLOOM AUGUST 2, 1954

25-45°	Apr. 12	May 3	Apr. 12—May 10	May 24	10 Week
	Apr. 12	May 3	Apr. 12—May 17	May 31	9 Week
	Apr. 12	May 3	Apr. 12—May 24	June 7	8 Week

BLOOM AUGUST 9, 1954

25-45°	Apr. 19	May 10	Apr. 19—May 10	May 31	10 Week
	Apr. 19	May 10	Apr. 19—May 17	June 7	9 Week
	Apr. 19	May 10	Apr. 19—May 24	June 14	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P	Freedom White top Madonna Pacesetter Shasta Illini Snowdrift	White Popcorn Keepsake Songster Halo Silver Cloud	Pristine
YELLOW	S	Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Orange Beauregard Yellow Shasta	Starlight Golden Herald Gold Coast Sunup Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray	Creampuff
BRONZE & RED	P	Beauregard Cadet	Buckskin	James Stewart Talisman
PINK	P	Dk. Linda Lou	Reward Pink Dot Rainbow	Mayfair Mirih Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM AUGUST 16, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Apr. 26	May 17	Apr. 26—May 10	June 7	10 Week
	Apr. 26	May 17	Apr. 26—May 17	June 14	9 Week
	Apr. 26	May 17	Apr. 26—May 24	June 21	8 Week

BLOOM AUGUST 23, 1954

25-45°	May 3	May 24	May 3 —May 10	June 24	10 Week
	May 3	May 24	May 3 —May 17	June 21	9 Week
	May 3	May 24	May 3 —May 24	June 28	8 Week

BLOOM AUGUST 30, 1954

25-45°	May 10	May 31	No Light Necessary	June 21	10 Week
	May 10	May 31	No Light Necessary	June 28	9 Week
	May 10	May 31	No Light Necessary	July 5	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
WHITE	S Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P Freedom Whitlop Madonna Pacesetter Shasta Illini Snowdrift	White Popcorn Keepsake Songster Halo Silver Cloud	Pristine
YELLOW	S Yellow Queen	Gold Lace Yellow Good News	Blazing Gold
	P Barcarole Crescendo Orange Beauregard Yellow Shasta	Starlight Golden Herald Gold Coast Sunup Aztec Sauterne Yellow Halo Mary L. Hall Starbright Sunray Honeymoon	Creampuff
BRONZE & RED	P Beauregard Cadet	Gaiety Buckskin	James Stewart Talisman
PINK	P Portrait Dk. Linda Lou	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirih Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM SEPTEMBER 6, 1954

Latitude	Plant	Pinch*	Start Shade	Response Group
25-45°	May 17	June 7	June 28	10 Week
	May 17	June 7	July 5	9 Week
	May 17	June 7	July 12	8 Week

BLOOM SEPTEMBER 13, 1954

25-45°	May 24	June 14	July 5	10 Week
	May 24	June 14	July 12	9 Week
	May 24	June 14	July 19	8 Week

BLOOM SEPTEMBER 20, 1954

40-45°	May 31	June 21	July 12	10 Week
	May 31	June 21	July 19	9 Week
	May 31	June 21	July 26	8 Week
25-40°	June 7	June 28	July 12	10 Week
	June 7	June 28	July 19	9 Week
	June 7	June 28	July 26	8 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
WHITE	S Ind. White Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Little America Illini Snowdrift	White Popcorn Keepsake Pinocchio Songster Halo (Ghs.) Sea Gull Silver Cloud (Ghs.)	Pristine
YELLOW	S Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P Barcarole Crescendo Brigadoon Constellation Pixie Yellow Shasta Orange Beauregard	Starlight Gold Coast Aztec Sauterne Yellow Halo (Ghs.) Sch. Yellow Daisy Mary L. Hall Sunray Honeymoon	Creampuff
BRONZE & RED	S Ind. Bronze Nomago Mrs. Roy	Detroit News	
	P Beauregard Rubicon Samovar Bittersweet Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy	James Stewart Talisman
PINK	S Ind. Pink Dk. Orchid Queen	Mary Garden	
	P Portrait Dark Bulkeley Cover Girl Nobility Rose Masterpiece Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirth Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM SEPTEMBER 27, 1954

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	June 7	June 28	July 19	10 Week
	June 7	June 28	July 26	9 Week
	June 7	June 28	Aug. 2	8 Week
25-40°	June 14	July 5	July 19	10 Week
	June 14	July 5	July 26	9 Week
	June 14	July 25	Aug. 2	8 Week

BLOOM OCTOBER 4, 1954

40-45°	June 14	July 5	July 19	11 Week
	June 14	July 5	July 26	10 Week
	June 14	July 5	Aug. 2	9 Week
25-40°	June 21	July 12	July 19	11 Week
	June 21	July 12	July 26	10 Week
	June 21	July 12	Aug. 2	9 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week	8 Week
WHITE	S Mefo	Ind. White Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace	Silver Sheen
	P Sculpture Highbrow Priscilla Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Little America Illini Snowdrift	White Popcorn Keepsake Pinocchio Songster Halo (Ghs.) Sea Gull Silv. Cloud (Ghs.)	Pristine
YELLOW	S Yellow Mefo Cream Mefo	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Crescendo Brigadoon Constellation Pixie Yellow Shasta Or. Beauregard	Starlight Gold Coast Aztec Sauterne Yel. Halo (Ghs.) Sch. Yel. Daisy Mary L. Hall Sunray Honeymoon	Creampuff
BRONZE & RED	S	Ind. Bronze Nomago Mrs. Roy	Detroit News	
	P Shalimar Thelma Rusticon Festival Br. Minuet	Beauregard Rubicon Samovar Bittersweet Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy	James Stewart Talisman
PINK	S Thanks. Pink	Ind. Pink Dk. Or. Queen	Mary Garden	
	P Brocade Minuet Almega Evening Star	Portrait Dark Bulkeley Cover Girl Nobility Rose Mast'p'ce Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow	Mayfair Mirth Mary McArthur

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM OCTOBER 11, 1954

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	June 14	July 5	July 26	11 Week
	June 14	July 5	Aug. 2	10 Week
	June 14	July 5	Aug. 9	9 Week
25-40°	June 21	July 12	July 26	11 Week
	June 21	July 12	Aug. 2	10 Week
	June 21	July 12	Aug. 9	9 Week

BLOOM OCTOBER 18, 1954

40-45°	June 21	July 12	Aug. 2	11 Week
	June 21	July 12	Aug. 9	10 Week
	June 21	July 12	Aug. 16	9 Week
25-40°	June 28	July 19	Aug. 2	11 Week
	June 28	July 19	Aug. 9	10 Week
	June 28	July 19	Aug. 16	9 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week
WHITE	S Mefo	Ind. White Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace
	P Sculpture Highbrow Priscilla Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Little America Illini Snowdrift	White Popcorn Keepsake Songster Halo (Ghs.) Sea Gull Silver Cloud (Ghs.)
YELLOW	S Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News
	P Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Crescendo Brigadoon Constellation Pixie Yellow Shasta Orange Beauregard	Starlight Gold Coast Aztec Sch. Yellow Daisy Mary L. Hall Sunray Honeymoon
BRONZE & RED	S	Ind. Bronze Nomago Mrs. Roy	Detroit News
	P Shalimar Thelma Rusticon Festival Br. Minuet Illini Redhead	Beauregard Rubicon Samovar Bittersweet Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy
PINK	S Thanks. Pink	Ind. Pink Dk. Orchid Queen	Mary Garden
	P Brocade Minuet Carole Polka Nugano Almega Illini Formal	Portrait Dark Bulkeley Cover Girl Nobility Rose Masterpiece Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM OCTOBER 25, 1954

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	June 28	July 19	Aug. 2	12 Week
	June 28	July 19	Aug. 9	11 Week
	June 28	July 19	Aug. 16	10 Week
	June 28	July 19	No	9 Week
25-40°	July 5	July 26	Aug. 2	12 Week
	July 5	July 26	Aug. 9	11 Week
	July 5	July 26	Aug. 16	10 Week
	July 5	July 26	No	9 Week

BLOOM NOVEMBER 1, 1954

40-45°	June 28	July 19	Aug. 9	12 Week
	June 28	July 19	Aug. 16	11 Week
	June 28	July 19	No	10 Week
25-40°	July 5	July 26	Aug. 9	12 Week
	July 5	July 26	Aug. 16	11 Week
	July 5	July 26	No	10 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week	9 Week
WHITE	S Chattanooga	Mefo	Ind. White Giant Betsy Ross Jean Elizabeth Crystal Queen	Queen's Lace
	P White Valencia Fortune	Sculpture Highbrow Priscilla Paramount Belray	Freedom Whitewop Encore Pacesetter Illini Igloo Shasta Little America Illini Snowdrift	White Popcorn Keepsake Songster Halo (Ghs.) Sea Gull
YELLOW	S Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News
	P Goldenrod Goldsmith Highlander Yel. Valencia Yel. Fortune Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Crescendo Brigadoon Constellation Pixie Yellow Shasta Or. Beaugard	Starlight Gold Coast Aztec Sch. Yel. Daisy Mary L. Hall Sunray Honeymoon
BRONZE & RED	S Oak Leaf		Ind. Bronze Nomago Mrs. Roy	Detroit News
	P Illini Redwood Br. Goldsmith Indian Head Apr. Valencia Galaxy	Shalimar Thelma Rusticon Festival Br. Minuet Illini Redhead	Beaugard Rubicon Samovar Bittersweet Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy
PINK	S	Thanks. Pink	Ind. Pink Dk. Or. Queen	Mary Garden
	P Hasegawa Pink Pink Cloud Valencia Dark Valencia	Brocade Minuet Carole Polka Nugano Almega Illini Formal	Portrait Dark Bulkeley Cover Girl Nobility Rose Mast'piece Taffeta	Pinkette Reward Pink Dot Bluechip Rainbow

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 8, 1954

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	July 5	July 26	Aug. 16	12 Week
	July 5	July 26	Aug. 23	11 Week
	July 5	July 26	No	10 Week
30-40°	July 12	Aug. 2	Aug. 16	12 Week
	July 12	Aug. 2	Aug. 23	11 Week
	July 12	Aug. 2	No	10 Week
25-30°	July 19	Aug. 9	Aug. 16	12 Week
	July 19	Aug. 9	Aug. 23	11 Week
	July 19	Aug. 9	No	10 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
WHITE	S	Chaffanooga	Mefo	Giant Betsy Ross Ind. White Jean Elizabeth Crystal Queen
	P	White Valencia Fortune	Sculpture Highbrow Priscilla Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Little America Illini Snowdrift
YELLOW	S	Golden Pearson Yel. Chaffanooga Dk. Yel. Chaffanooga	Yellow Meto Cream Meto Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Goldenrod Goldsmith Highlander Yel. Valencia Yel. Fortune Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Crescendo Brigadoon Constellation Pixie Yellow Shasta Orange Beauregard
BRONZE & RED	S	Oak Leaf		Ind. Bronze Nomago Mrs. Roy
	P	Illini Redwood Br. Goldsmith Indian Head Apr. Valencia Galaxy	Shalimar Thelma Rusticon Festival Br. Minuet Illini Redhead	Beauregard Rubicon Samovar Bittersweet Paragon
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen
	P	Hasegawa Pink Pink Cloud Valencia Dark Valencia	Brocade Minuet Carole Polka Nugano Almega Illini Formal	Portrait Dark Bulkeley Cover Girl Nobility Rose Masterpiece Taffeta

S—Standard

P—Pompon

Gloekner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 15, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 12	Aug. 2	None	Aug. 23	12 Week
	July 12	Aug. 2	None	No	11 Week
	July 12	Aug. 2	Aug. 9 —Sept. 6	No	10 Week
30-40°	July 19	Aug. 9	None	Aug. 23	12 Week
	July 19	Aug. 9	None	No	11 Week
	July 19	Aug. 9	Aug. 9 —Sept. 6	No	10 Week
25-30°	July 26	Aug. 16	None	Aug. 23	12 Week
	July 26	Aug. 16	None	No	11 Week
	July 26	Aug. 16	Aug. 9 —Sept. 6	No	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo	Ind. White Crystal Queen
	P	White Valencia Fortune	Sculpture Highbrow Priscilla Paramount Belray	
YELLOW	S	Golden Pearson Yel. Chattanooga Dk. Yel. Chattanooga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Goldenrod Goldsmith Highlander Sunnyside Yel. Valencia Yel. Fortune Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Klondike Yel. Paramount	
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Illini Redwood Br. Goldsmith Indian Head Apr. Valencia Galaxy	Illini Redhead Rusticon Thelma Carousel Festival Br. Minuet	
PINK	S		Thanks. Pink	Ind. Pink Orchid Queen Dk. Orchid Queen
	P	Hasegawa Pink Pink Cloud Valencia Dark Valencia	Carole Polka Nugano Almega Minuet Illini Formal	

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 22, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 12	Aug. 2	None	Aug. 23	13 Week
	July 12	Aug. 2	None	Aug. 30	12 Week
	July 12	Aug. 2	None	No	11 Week
	July 12	Aug. 2	Aug. 9 —Sept. 13	No	10 Week
30-40°	July 19	Aug. 9	None	Aug. 23	13 Week
	July 19	Aug. 9	None	Aug. 30	12 Week
	July 19	Aug. 9	None	No	11 Week
	July 19	Aug. 9	Aug. 9 —Sept. 13	No	10 Week
25-30°	July 26	Aug. 16	None	Aug. 23	13 Week
	July 26	Aug. 16	None	Aug. 30	12 Week
	July 26	Aug. 16	None	No	11 Week
	July 26	Aug. 16	Aug. 9 —Sept. 13	No	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga Margaret Moeller	Melo	Ind. White Crystal Queen
	P Cameo Acclaim Cotillion Carrara Yukon	White Valencia Fortune	Sculpture Highbrow Priscilla Paramount Belray	
YELLOW	S	Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Melo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P Brandywine Yellow Cameo Cinderella Goldtone Corsair	Goldenrod Goldsmith Highlander Sunnyside Yel. Fortune Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Klondike Yel. Paramount	
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P Mahogany Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Illini Redwood Br. Goldsmith Indian Head Apr. Valencia Galaxy	Illini Redhead Rusticon Thelma Carousel Festival Br. Minuet	
PINK	S		Thanks. Pink	Ind. Pink Orchid Queen Dk. Orchid Queen
	P Debutante Minstrel Lt. Pk. Minstrel	Hasegawa Pink Valencia	Carole Polka Nugano Almea Minuet Illini Formal	

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 29, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 19	Aug. 9	None	Aug. 30	13 Week
	July 19	Aug. 9	None	No	12 Week
	July 19	Aug. 9	Aug. 16—Sept. 13	No	11 Week
	July 19	Aug. 9	Aug. 9—Sept. 20	No	10 Week
30-40°	July 26	Aug. 16	None	Aug. 30	13 Week
	July 26	Aug. 16	None	No	12 Week
	July 26	Aug. 16	Aug. 16—Sept. 13	No	11 Week
	July 26	Aug. 16	Aug. 9—Sept. 20	No	10 Week
25-30°	Aug. 2	Aug. 23	None	Aug. 30	13 Week
	Aug. 2	Aug. 23	None	No	12 Week
	Aug. 2	Aug. 23	Aug. 16—Sept. 13	No	11 Week
	Aug. 2	Aug. 23	Aug. 9—Sept. 20	No	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga Margaret Moeller	Mefo	Ind. White Crystal Queen
	P Cameo Acclaim Cotillion Carrara Yukon	White Velancia Fortune	Sculpture Highbrow Priscilla Paramount Belray	
YELLOW	S	Golden Pearson Yel. Chattanooga Dk. Yel. Chat'n'ga	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Brandywine Yellow Cameo Cinderella Goldtone Corsair	Goldenrod Goldsmith Highlander Sunnyside Yel. Fortune Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Klondike Yel. Paramount	
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P Mahogany Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Illini Redwood Br. Goldsmith Indian Head Apr. Valencia Galaxy	Illini Redhead Rusticon Thelma Carousel Festival Br. Minuet	
PINK	S		Thanks. Pink	Ind. Pink Orchid Queen Dk. Orchid Queen
	P Debutante Minstrel Lt. Pk. Minstrel	Hasegawa Pink Valencia	Carole Polka Nugano Almega Minuet Illini Formal	

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 6, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 26	Aug. 16	None	Aug. 30	14 Week
	July 26	Aug. 16	None	No	13 Week
	July 26	Aug. 16	Aug. 23—Sept. 13	No	12 Week
	July 26	Aug. 16	Aug. 16—Sept. 20	No	11 Week
	July 26	Aug. 16	Aug. 9 —Sept. 27	No	10 Week
30-40°	Aug. 2	Aug. 23	None	Aug. 30	14 Week
	Aug. 2	Aug. 23	None	No	13 Week
	Aug. 2	Aug. 23	Aug. 23—Sept. 13	No	12 Week
	Aug. 2	Aug. 23	Aug. 16—Sept. 20	No	11 Week
	Aug. 2	Aug. 23	Aug. 9 —Sept. 27	No	10 Week
25-30°	Aug. 9	Aug. 30	None	No	13 Week
	Aug. 9	Aug. 30	Aug. 23—Sept. 13	No	12 Week
	Aug. 9	Aug. 30	Aug. 16—Sept. 20	No	11 Week
	Aug. 9	Aug. 30	Aug. 9 —Sept. 27	No	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S	Dec. White Smith's White	Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Paramount Priscilla Belray	Whitetop Illini Igloo Shasta Encore Little America
YELLOW	S	Chalice Tobin's Yellow Meteore	Golden Pearson Yel. Chat'n'ga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Brandywine Yellow Cameo Cinderella Goldtone Corsair	Gold. Chord Forty-Niner Lollipop Pippin Yel. Par'm't	Barcarole Or. Beauregard Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Or. Queen
	P	Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Mah. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Yolanda Galaxy	Shalimar Thelma Festival
PINK	S			Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P	Riviera Ser. Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel	Hasegawa Pink Brocade Almega	Linda Lou Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 13, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 26	Aug. 16	None	Sept. 6	14 Week
	July 26	Aug. 16	None	No	13 Week
	July 26	Aug. 16	Aug. 23—Sept. 20	No	12 Week
	July 26	Aug. 16	Aug. 16—Sept. 27	No	11 Week
	July 26	Aug. 16	Aug. 9 —Oct. 4	No	10 Week
30-40°	Aug. 2	Aug. 23	None	Sept. 6	14 Week
	Aug. 2	Aug. 23	None	No	13 Week
	Aug. 2	Aug. 23	Aug. 23—Sept. 20	No	12 Week
	Aug. 2	Aug. 23	Aug. 16—Sept. 27	No	11 Week
	Aug. 2	Aug. 23	Aug. 9 —Oct. 4	No	10 Week
25-30°	Aug. 9	Aug. 30	None	No	13 Week
	Aug. 9	Aug. 30	Aug. 23—Sept. 20	No	12 Week
	Aug. 9	Aug. 30	Aug. 16—Sept. 27	No	11 Week
	Aug. 9	Aug. 30	Aug. 9 —Oct. 4	No	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S	Dec. White Smith's White	Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Paramount Priscilla Belray	Whitetop Illini Igloo Shasta Encore Little America
YELLOW	S	Chalice Tobin's Yellow Meteore	Golden Pearson Yel. Chat'n'ga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Par'm't	Barcarole Or. Beauregard Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Or. Queen
	P	Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Mah. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Yolanda Galaxy	Shallmar Thelma Festival
PINK	S			Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P	Riviera Ser. Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel	Hasegawa Pink	Brocade Almega
					Linda Lou Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 20, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 2	Aug. 23	None	No	14 Week
	Aug. 2	Aug. 23	Aug. 30—Sept. 20	No	13 Week
	Aug. 2	Aug. 23	Aug. 23—Sept. 27	No	12 Week
	Aug. 2	Aug. 23	Aug. 16—Oct. 4	No	11 Week
	Aug. 2	Aug. 23	Aug. 9 —Oct. 11	No	10 Week
35-40°	Aug. 9	Aug. 30	None	No	14 Week
	Aug. 9	Aug. 30	Aug. 30—Sept. 20	No	13 Week
	Aug. 9	Aug. 30	Aug. 23—Sept. 27	No	12 Week
	Aug. 9	Aug. 30	Aug. 16—Oct. 4	No	11 Week
	Aug. 9	Aug. 30	Aug. 16—Oct. 11	No	10 Week
30-35°	Aug. 16	Sept. 6	None	No	14 Week
	Aug. 16	Sept. 6	Aug. 30—Sept. 20	No	13 Week
	Aug. 16	Sept. 6	Aug. 23—Sept. 27	No	12 Week
	Aug. 16	Sept. 6	Aug. 23—Oct. 4	No	11 Week
	Aug. 16	Sept. 6	Aug. 23—Oct. 11	No	10 Week
25-30°	Aug. 23	Sept. 13	Aug. 30—Sept. 20	No	13 Week
	Aug. 23	Sept. 13	Aug. 30—Sept. 27	No	12 Week
	Aug. 23	Sept. 13	Aug. 30—Oct. 4	No	11 Week
	Aug. 23	Sept. 13	Aug. 30—Oct. 11	No	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S	Dec. White Smith's White	Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Snowcrest Silversmith Snowcap Satellite	Monarch	Sculpture Highbrow Paramount Priscilla Belray	Whitetop Illini Igloo Shasta Encore Little America
YELLOW	S	Chalice Tobin's Yellow Meteore	Golden Pearson Yel. Chat'n'ga Dk. Yel. Chat'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Goldenrod Highlander Omega Yel. Galaxy	Golden Chord Forty-Niner Lollipop Pippin Yel. Par'm't	Barcarole Or. Beauregard Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze
	P	Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Mah. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Yolanda Galaxy	Shalimar Thelma Festival
PINK	S			Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P	Riviera Ser. Riviera Roselind	Debutante Minstrel Lt. Pk. Minstrel	Hasegawa Pink	Brocade Almaga
					Linda Lou Taffeta

S—Standard

P—Pompon

Gloeckner Chrysanthemum Manual

Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 27, 1954

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 9	Aug. 30	None	No	15 Week
	Aug. 9	Aug. 30	Sept. 6 —Sept. 20	No	14 Week
	Aug. 9	Aug. 30	Aug. 30—Sept. 27	No	13 Week
	Aug. 9	Aug. 30	Aug. 23—Oct. 4	No	12 Week
	Aug. 9	Aug. 30	Aug. 16—Oct. 11	No	11 Week
	Aug. 9	Aug. 30	Aug. 9 —Oct. 18	No	10 Week
35-40°	Aug. 16	Sept. 6	None	No	15 Week
	Aug. 16	Sept. 6	Sept. 6 —Sept. 20	No	14 Week
	Aug. 16	Sept. 6	Aug. 30—Sept. 27	No	13 Week
	Aug. 16	Sept. 6	Aug. 23—Oct. 4	No	12 Week
	Aug. 16	Sept. 6	Aug. 16—Oct. 11	No	11 Week
	Aug. 16	Sept. 6	Aug. 16—Oct. 18	No	10 Week
30-35°	Aug. 30	Sept. 20	Aug. 30—Sept. 27	No	13 Week
	Aug. 30	Sept. 20	Aug. 30—Oct. 4	No	12 Week
	Aug. 30	Sept. 20	Aug. 30—Oct. 11	No	11 Week
	Aug. 30	Sept. 20	Aug. 30—Oct. 18	No	10 Week
25-30°	Sept. 6	Sept. 27	Sept. 6 —Sept. 27	No	13 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 4	No	12 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 11	No	11 Week
	Sept. 6	Sept. 27	Sept. 6 —Oct. 18	No	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	15 Week	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Dec. White Smith's White	Chattanooga	Mefo	Ind. White Jean Elizabeth Crystal Queen
	P	Revelation Snow Tameda Illini Snowbound	Snowcrest Silversmith Snowcap Satellite	Cameo Acclaim Cotillion Carrara Yukon	Monarch	Sculpture Highbrow Paramount Priscilla Belray
YELLOW	S		Chalice Tobin's Yellow Meteore	Golden Pearson Yel. Chaf'n'ga Dk. Yel. Chaf'n'ga	Yellow Mefo Cream Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Siren Yuleflame Yellow Snow Ill. Yel. S'nbound	Yel. Snowcrest Cr. Snowcrest Yel. Snowcap Vibrant	Brandywine Yellow Cameo Cinderella Goldtone Corsair	Goldenrod Highlander Omega Yel. Galaxy	Gold. Chord Forty-Niner Lollipop Pippin Yel. Par'm't
BRONZE & RED	S			Oak Leaf		Ind. Bronze Br. Or. Queen
	P		Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Mah. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Yolanda Galaxy	Shalimar Thelma Festival
PINK	S				Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P		Riviera Ser. Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel	Hasegawa Pink	Brocade Almega

S—Standard

P—Pompon

Chrysanthemum Pot Plant Culture

Like cut flowers, chrysanthemum pot plants are very profitable the year-around. To flower pot plants the year-around, it is necessary to lay out a plan and follow it to the nth degree. In the following pages, you will find a schedule that has been working successfully for the past several years.

Soil

A good, fibrous silt loam directly from the field, to which one-quarter of well-rotted manure or German peat has been added, plus an application of super-phosphate will give excellent results. Steam sterilization of the soil is advisable. You can plant immediately after steaming, provided you water heavily after planting the cuttings.

Watering and Humidity

After planting, water thoroughly to set the soil around the roots. Repeat this type of watering when the soil gets dry. Organic matter in the soil will facilitate watering and will tend to avoid extreme fluctuations in moisture supply. You can overwater a chrysanthemum as easily as a poinsettia plant. Overwatering will rot the roots, and the tops will take on a very yellow color.

For best results, grow all potted chrysanthemums under glass. Do not shade the glass any more than necessary. Shade on the glass is only there for the convenience of the grower and not for the requirements of the plant. Keep humidity in the house by wetting down benches and walks, and by an occasional syringing over the plants.

Fertilizing

The foliage should retain a bright green luster throughout the life of the plant. The lower leaves should never be allowed to turn a light green due to low fertility. A strong well-grown pot plant is a well-fed plant. Pot plants should be fed more frequently than those grown in a bench, as constant leaching lowers the nutrient level in pots faster than in bench culture.

Liquid fertilizers are very effective. Weekly feedings have produced excellent results. After the cuttings are planted, water the plants in with a weak solution (starter solution) of ammonium sulfate. Feed every week with a half strength ammonium sulfate, 1 ounce to 4 gallons of water. When buds are visible, feed with 15-30-15, 15-15-15, or 20-20-20 at the rate of 1 ounce to 4 gallons of water. Last feeding should be made when the plants are ready to sell. During the winter months do not feed as frequently.

Brown edges on the margins of the leaves during the summer have been attributed to too much phosphate and potassium in the soil or in the fertilizer. Some growers have preferred to go easy on these elements, and their plants showed very little of the marginal burning during the hot summer days.

Temperature

Chrysanthemum pot plants do much better when grown as a 65-degree crop. Lower temperatures will cause an uneven and poor growth. After color shows, finish in a cooler temperature. The pinks and bronzes will be a better color when allowed to develop their color in a bright cool house.

Shading and Disbudding

Use same procedure as for cut flower crop. Black cloth treatment should continue until the buds are taken. The last pinch is usually made the same day short-day treatment is started. However, if you are troubled with tall potted plants, delay the last pinch 10 to 14 days after starting the shading program. Disbud each shoot to one bud when buds are large enough to handle.



Bonnaffon Deluxe — Singe-Pinch Method

Gloeckner Chrysanthemum Manual

Chrysanthemum Pot Plant Culture

Planting and Pinching

Plant the rooted cutting directly in the pot. Do not plant cuttings too deep as in hot weather this will cause Rhizoctonia to develop in the stem. It has been found that the best way to plant the cuttings is around the pot and not the common four with one in the center.

No-Pinch Method. Plant 7 to 9 cuttings in a 6-inch pot and give short-day treatment the same day. It is a very rapid way to grow potted plants the year-around. The blooms will be very large and the stems will be much stronger than when growing pinched plants.

Single-Pinch Method. The most common method of growing potted plants today. It is much faster and produces a very uniform plant with strong stems not too tall. Plant 5 or 6 cuttings in a 6-inch pot. Pinch the plants 5 days after planting and give short-day treatment the day you pinch.

We suggest that those plants that are planted between September 15 and January 1 be given 12 days of additional light before they are pinched. The requirements for additional light can be found on page 1. For those plants planted from January 1 to May 1 we suggest that 5 days of additional light be given. The rest of the year the length of day is long enough to produce long day effects. Like all rules there are exceptions and for these exceptions study the year-around pot plant schedule.

Two-Pinch Method. Probably the most common several years ago, but still very good results can be obtained from this method. Plant 3 or 4 cuttings in a 6-inch pot. Pinch the plants the first time 14 days after planting and wait 21 days and pinch the second time. Long-day treatment should be maintained either naturally or through the use of additional light during this period. Short-day treatment should start at the time of the second pinch.

Modified Two-Pinch Method. We recommend this cultural method for those varieties that normally grow too tall, such as Queen's Lace, Indianapolis varieties, Copperhead, etc. Grow the plants similar to the "Single-Pinch Method" and start the short-day treatment. After the plant has been given the short-day treatment — 21 or 28 days depending on the time of year, pinch the second time. This second pinching will not delay the flowering very much more than one week

but will keep the plant much shorter than if not given this second pinch.

If plants flower too tall, you had better delay your last pinch by 10 to 14 days. In some localities pot plants will grow taller than in others. Sometimes too much shade on the glass will cause the plants to stretch. Yet there are many varieties that grow too tall when given the short-day treatment the day of the last pinch. If this is true, start short-day treatment and give the final pinch 10 to 14 days after short-day treatment was started. Royal Bronze, Indianapolis varieties, Queen's Lace, Yellow Lace and Little America are often grown too tall, so delay pinching.

Garden Mum Pot Plants for Mother's Day

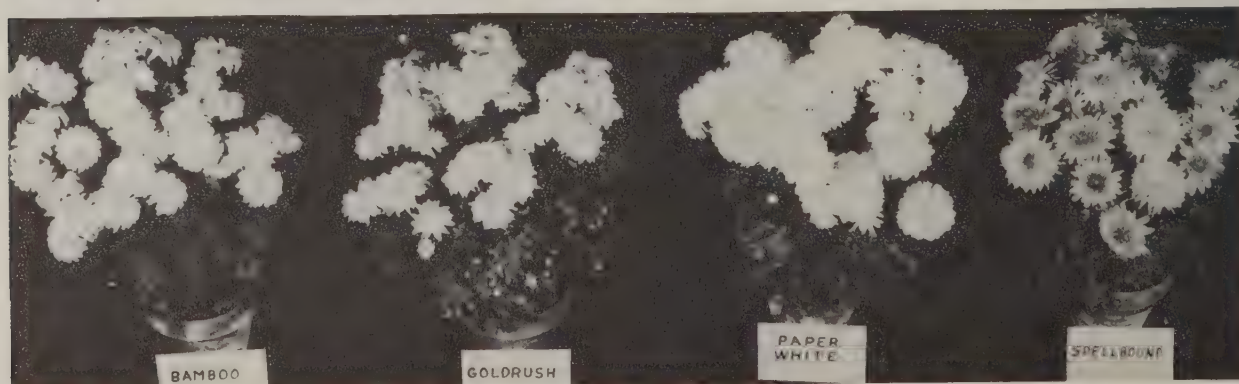
Garden mum plants in full bloom make ideal potted plants for Mother's Day. This should be a valuable addition to the list of spring pot plants. For best results, 5 cuttings should be planted in a 6-inch pot or 2 cuttings in a 4-inch pot. After these pot plants are through flowering, they should be cut back to within 3 inches of the soil level and planted into the garden. These same plants will bloom again in the fall. There is a long list of varieties to choose from, and to facilitate selection, we are offering a 500 cutting collection suitable for this culture. This collection contains the better varieties which have been tried and proven.

SINGLE-PINCH METHOD

1. Plant 5 rooted cuttings from lighted stock, March 3 in a 6-inch pot.
2. Pinch plants March 8.
3. Grow in 65-degree house.
4. Apply black cloth April 12, if necessary.

TWO-PINCH METHOD

1. Plant 5 rooted cuttings from lighted stock, February 3, and pinch same day.
2. Apply 4 hours of additional light each night from February 3 to March 8.
3. Pinch second time March 8, give short-day treatment April 12, if necessary.
4. Grow in 65-degree house.



Garden Pot Mums for Mother's Day

Gloeckner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Lighting Period	Pinch	Shade	Flower
Blazing Gold	Oct. 27	Oct. 27 - Nov. 8	Nov. 8	no	JANUARY 3, 1955
Queen's Lace	Oct. 20	Oct. 20 - Oct. 25	1st Oct. 25	no	
Yellow Lace			2nd Nov. 22		
Indianapolis White ..	Oct. 20	Oct. 20 - Oct. 25	Oct. 25	no	
Dk. Indianapolis Yel.					
Indianapolis Pink					
Wilson's White	Oct. 13	Oct. 13 - Oct. 25	Oct. 25	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Oct. 6	Oct. 6 - Oct. 18	Oct. 18	no	
Blazing Gold	Nov. 3	Nov. 3 - Nov. 15	Nov. 15	no	JANUARY 10, 1955
Queen's Lace	Oct. 27	Oct. 27 - Nov. 1	1st Nov. 1	no	
Yellow Lace			2nd Nov. 29		
Indianapolis White ..	Oct. 27	Oct. 27 - Nov. 1	Nov. 1	no	
Dk. Indianapolis Yel.					
Indianapolis Pink					
Wilson's White	Oct. 20	Oct. 20 - Nov. 1	Nov. 1	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Oct. 13	Oct. 13 - Oct. 25	Oct. 25	no	
Blazing Gold	Nov. 10	Nov. 10 - Nov. 22	Nov. 22	no	JANUARY 17, 1955
Queen's Lace	Nov. 3	Nov. 3 - Nov. 8	1st Nov. 8	no	
Yellow Lace			2nd Dec. 6		
Indianapolis White ..	Nov. 3	Nov. 3 - Nov. 8	Nov. 8	no	
Dk. Indianapolis Yel.					
Indianapolis Pink					
Wilson's White	Oct. 27	Oct. 27 - Nov. 8	Nov. 8	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Oct. 20	Oct. 20 - Nov. 1	Nov. 1	no	
Blazing Gold	Nov. 17	Nov. 17 - Nov. 29	Nov. 29	no	JANUARY 24, 1955
Queen's Lace	Nov. 10	Nov. 10 - Nov. 15	1st Nov. 15	no	
Yellow Lace			2nd Dec. 13		
Indianapolis White ..	Nov. 10	Nov. 10 - Nov. 15	Nov. 15	no	
Dk. Indianapolis Yel.					
Indianapolis Pink					
Wilson's White	Nov. 3	Nov. 3 - Nov. 15	Nov. 15	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Oct. 27	Oct. 27 - Nov. 8	Nov. 8	no	

Gloeckner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Lighting Period	Pinch	Shade	Flower
Blazing Gold	Nov. 24	Nov. 24 - Dec. 6	Dec. 6	no	JANUARY 31, 1955
Queen's Lace	Nov. 17	Nov. 17 - Nov. 22	1st Nov. 22	no	
Yellow Lace			2nd Dec. 20		
Indianapolis White ..	Nov. 17	Nov. 17 - Nov. 22	Nov. 22	no	
Dk. Indianapolis Yel					
Indianapolis Pink					
Wilson's White	Nov. 10	Nov. 10 - Nov. 22	Nov. 22	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Nov. 3	Nov. 3 - Nov. 15	Nov. 15	no	
Blazing Gold	Dec. 1	Dec. 1 - Dec. 13	Dec. 13	no	
Queen's Lace	Nov. 24	Nov. 24 - Nov. 29	1st Nov. 29	no	
Yellow Lace			2nd Dec. 27		
Indianapolis White ..	Nov. 24	Nov. 24 - Nov. 29	Nov. 29	no	FEBRUARY 7, 1955
Dk. Indianapolis Yel					
Indianapolis Pink					
Wilson's White	Nov. 17	Nov. 17 - Nov. 29	Nov. 29	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Nov. 10	Nov. 10 - Nov. 22	Nov. 22	no	
Blazing Gold	Dec. 8	Dec. 8 - Dec. 20	Dec. 20	no	
Queen's Lace	Dec. 1	Dec. 1 - Dec. 6	1st Dec. 6	no	
Yellow Lace			2nd Jan. 3		
Indianapolis White ..	Dec. 1	Dec. 1 - Dec. 6	Dec. 6	no	FEBRUARY 14, 1955
Dk. Indianapolis Yel					
Indianapolis Pink					
Wilson's White	Nov. 24	Nov. 24 - Dec. 6	Dec. 6	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Nov. 17	Nov. 17 - Nov. 29	Nov. 29	no	
Blazing Gold	Dec. 15	Dec. 15 - Dec. 27	Dec. 27	no	
Queen's Lace	Dec. 8	Dec. 8 - Dec. 13	1st Dec. 13	no	
Yellow Lace			2nd Jan. 10		
Indianapolis White ..	Dec. 8	Dec. 8 - Dec. 13	Dec. 13	no	FEBRUARY 21, 1955
Dk. Indianapolis Yel					
Indianapolis Pink					
Wilson's White	Dec. 1	Dec. 1 - Dec. 13	Dec. 13	no	
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Nov. 24	Nov. 24 - Dec. 6	Dec. 6	no	

Gloekner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Lighting Period	Pinch	Shade	Flower
Blazing Gold	Dec. 22	Dec. 22 - Jan. 3	Jan. 3	no	FEBRUARY 28, 1955
Queen's Lace	Dec. 15	Dec. 15 - Dec. 20	1st Dec. 20	no	
Yellow Lace			2nd Jan. 17		
Indianapolis White..					
Dk. Indianapolis Yel	Dec. 15	Dec. 15 - Dec. 20	Dec. 20	no	
Indianapolis Pink					
Wilson's White					
Little America	Dec. 8	Dec. 8 - Dec. 20	Dec. 20	no	
Queen of Pinks					
Bonnaffon Deluxe	Dec. 1	Dec. 1 - Dec. 13	Dec. 13	no	
Blazing Gold	Dec. 29	Dec. 29 - Jan. 10	Jan. 10	no	MARCH 7, 1955
Queen's Lace	Dec. 22	None	1st Dec. 27	no	
Yellow Lace			2nd Jan. 24		
Indianapolis White..					
Dk. Indianapolis Yel	Dec. 22	Dec. 22 - Dec. 27	Dec. 27	no	
Indianapolis Pink					
Wilson's White					
Little America	Dec. 15	Dec. 15 - Dec. 27	Dec. 27	no	
Queen of Pinks					
Bonnaffon Deluxe	Dec. 8	Dec. 8 - Dec. 20	Dec. 20	no	
Blazing Gold	Jan. 12	Jan. 12 - Jan. 17	Jan. 17	no	MARCH 14, 1955
Queen's Lace	Dec. 29	None	1st Jan. 3	no	
Yellow Lace			2nd Jan. 31		
Indianapolis White..					
Dk. Indianapolis Yel	Dec. 29	None	Jan. 3	no	
Indianapolis Pink					
Wilson's White					
Little America	Dec. 29	Dec. 29 - Jan. 3	Jan. 3	no	
Queen of Pinks					
Bonnaffon Deluxe	Dec. 22	Dec. 22 - Dec. 27	Jan. 27	no	
Blazing Gold	Jan. 19	Jan. 19 - Jan. 24	Jan. 24	no	MARCH 21, 1955
Queen's Lace	Jan. 5	None	1st Jan. 5	no	
Yellow Lace			2nd Jan. 31		
Indianapolis White..					
Dk. Indianapolis Yel	Jan. 5	None	Jan. 10	no	
Indianapolis Pink					
Wilson's White					
Little America	Jan. 5	Jan. 5 - Jan. 10	Jan. 10	no	
Queen of Pinks					
Bonnaffon Deluxe	Dec. 29	Dec. 29 - Jan. 3	Jan. 3	no	

Gloekner Chrysanthemum Manual

Year-Around Pot Plant Schedule ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Lighting Period	Pinch	Shade	Flower
Blazing Gold	Jan. 27	Jan. 27 - Feb. 1	Feb. 1	Mar. 22	MARCH 29, 1954
Queen's Lace	Jan. 13	None	1st Jan. 13		
Yellow Lace			2nd Feb. 8	no	
Indianapolis White..	Jan. 13	None	Jan. 18	no	
Dk. Indianapolis Yel.					
Indianapolis Pink....					
Wilson's White	Jan. 13	Jan. 13 - Jan. 18	Jan. 18	no	APRIL 5, 1954
Little America					
Queen of Pinks					
Bonnaffon Deluxe	Jan. 6	Jan. 6 - Jan. 11	Jan. 11	no	
Blazing Gold	Feb. 3	Feb. 3 - Feb. 8	Feb. 8	no	
Granite State	Jan. 27	Jan. 27 - Feb. 1	Feb. 1	no	APRIL 12, 1954
Queen's Lace	Jan. 20	None	1st Jan. 20		
Yellow Lace			2nd Feb. 15	no	
Indianapolis White..	Jan. 20	None	Jan. 25	no	
Dk. Indianapolis Yel.					
Indianapolis Pink....					
Wilson's White	Jan. 20	Jan. 20 - Jan. 25	Jan. 25	no	APRIL 19, 1954
Queen of Pinks					
Portrait					
Bonnaffon Deluxe	Jan. 13	Jan. 13 - Jan. 18	Jan. 18	no	
Blazing Gold	Feb. 10	Feb. 10 - Feb. 15	Feb. 15	no	
Granite State	Feb. 3	Feb. 3 - Feb. 8	Feb. 8	no	APRIL 19, 1954
Queen's Lace	Jan. 27	None	1st Jan. 27		
Yellow Lace			2nd Feb. 22	no	
Indianapolis White..	Jan. 27	None	Feb. 1	no	
Dk. Indianapolis Yel.					
Indianapolis Pink....					
Wilson's White	Jan. 27	Jan. 27 - Feb. 1	Feb. 1	no	APRIL 19, 1954
Queen of Pinks					
Portrait					
Bonnaffon Deluxe	Jan. 20	Jan. 20 - Jan. 25	Jan. 25	no	
Blazing Gold	Feb. 17	Feb. 17 - Feb. 22	Feb. 22	no	
Granite State	Feb. 10	Feb. 10 - Feb. 15	Feb. 15	no	APRIL 19, 1954
Queen's Lace	Feb. 3	None	1st Feb. 3		
Yellow Lace			2nd Mar. 1	no	
Indianapolis White..	Feb. 3	None	Feb. 8	Mar. 22	
Dk. Indianapolis Yel.					
Indianapolis Pink....					
Wilson's White	Feb. 3	Feb. 3 - Feb. 8	Feb. 22	Mar. 22	APRIL 19, 1954
Queen of Pinks					
Portrait					
Bonnaffon Deluxe	Jan. 27	Jan. 27 - Feb. 1	Feb. 1	Mar. 15	

Gloeckner Chrysanthemum Manual

Year-Around Pot Plant Schedule ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Lighting Period	Pinch	Shade	Flower
Blazing Gold	Feb. 24	Feb. 24 - Mar. 1	Mar. 1	no	APRIL 26, 1954
Granite State	Feb. 17	Feb. 17 - Feb. 22	Feb. 22	Mar. 29	
Queen's Lace	Feb. 10	None	1st Feb. 10	Mar. 29	
Yellow Lace			2nd Mar. 8		
Indianapolis White.. Dk. Indianapolis Yel. Indianapolis Pink...	Feb. 10	None	Feb. 15	Mar. 22	
Wilson's White					
Queen of Pinks	Feb. 10	Feb. 10 - Feb. 15	Feb. 15	Mar. 22	
Portrait					
Bonnafton Deluxe	Feb. 3	Feb. 3 - Feb. 8	Feb. 8	Mar. 15	
Blazing Gold	Mar. 3	Mar. 3 - Mar. 8	Mar. 8	Apr. 5	
Granite State	Feb. 24	Feb. 24 - Mar. 1	Mar. 1	Mar. 29	MAY 3, 1954
Queen's Lace	Feb. 17	None	1st Feb. 17	Mar. 29	
Yellow Lace			2nd Mar. 15		
Indianapolis White.. Dk. Indianapolis Yel. Indianapolis Pink...	Feb. 17	None	Feb. 22	Mar. 22	
Wilson's White					
Queen of Pinks	Feb. 17	Feb. 17 - Feb. 22	Feb. 22	Mar. 22	
Portrait					
Bonnafton Deluxe	Feb. 10	Feb. 10 - Feb. 15	Feb. 15	Mar. 15	
Blazing Gold	Mar. 10	None	Mar. 15	Apr. 5	
Granite State	Mar. 3	None	Mar. 8	Mar. 29	
Queen's Lace	Feb. 24	None	1st Feb. 24	Mar. 29	
Yellow Lace			2nd Mar. 22		
Indianapolis White.. Dk. Indianapolis Yel. Indianapolis Pink...	Feb. 24	None	Mar. 1	Mar. 22	
Wilson's White					
Queen of Pinks	Feb. 24	Feb. 24 - Mar. 1	Mar. 1	Mar. 22	
Portrait					
Bonnafton Deluxe	Feb. 17	Feb. 17 - Feb. 22	Feb. 22	Mar. 15	
Blazing Gold	Mar. 17	None	Mar. 22	Apr. 5	
Granite State	Mar. 10	None	Mar. 15	Mar. 29	MAY 17, 1954
Queen's Lace	Mar. 3	None	1st Mar. 3	Mar. 29	
Yellow Lace			2nd Mar. 29		
Indianapolis White.. Dk. Indianapolis Yel. Indianapolis Pink...	Mar. 3	None	Mar. 8	Mar. 22	
Wilson's White					
Queen of Pinks	Mar. 3	Mar. 3 - Mar. 8	Mar. 8	Mar. 22	
Portrait					
Bonnafton Deluxe	Feb. 24	Feb. 24 - Mar. 1	Mar. 1	Mar. 15	

Gloeckner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Pinch	Shade	Flower	
Blazing Gold	Mar. 24	Mar. 29	Apr. 5	MAY 24, 1954	
Granite State	Mar. 17	Mar. 22	Mar. 29		
Queen's Lace	Mar. 10	1st Mar. 10	Mar. 29		
Yellow Lace		2nd Apr. 5			
Indianapolis White	Mar. 10	Mar. 15	Mar. 22		
Dk. Indianapolis Yellow					
Indianapolis Pink					
Wilson's White	Mar. 10	Mar. 15	Mar. 22		
Queen of Pinks					
Portrait					
Bonnaffon Deluxe	Mar. 3	Mar. 8	Mar. 15		
Blazing Gold	Mar. 31	Apr. 5	Apr. 5	MAY 31, 1954	
Granite State	Mar. 24	Mar. 29	Mar. 29		
Queen's Lace	Mar. 17	1st Mar. 17	Mar. 29		
Yellow Lace		2nd Apr. 12			
Indianapolis White	Mar. 17	Mar. 22	Mar. 22		
Dk. Indianapolis Yellow					
Indianapolis Pink					
Wilson's White					
Queen of Pinks					
Portrait					
Bonnaffon Deluxe	Mar. 10	Mar. 15	Mar. 15		
Blazing Gold	Apr. 7	Apr. 12	Apr. 12	JUNE 7, 1954	
Granite State	Mar. 31	Apr. 5	Apr. 5		
Wilson's White					
Portrait	Mar. 24	Mar. 29	Mar. 29		
Queen's Lace	Mar. 24	1st Mar. 24	Mar. 24		
Yellow Lace		2nd Apr. 19			
Bonnaffon Deluxe	Mar. 17	Mar. 22	Mar. 22		
Blazing Gold	Apr. 14	Apr. 19	Apr. 19		JUNE 14, 1954
Granite State	Apr. 7	Apr. 12	Apr. 12		
Wilson's White					
Portrait	Mar. 31	Apr. 5	Apr. 5		
Queen's Lace	Mar. 31	1st Mar. 31	Mar. 31		
Yellow Lace		2nd Apr. 26			
Bonnaffon Deluxe	Mar. 24	Mar. 29	Mar. 29		

Gloekner Chrysanthemum Manual

Year-Around Pot Plant Schedule ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Pinch	Shade	Flower
Blazing Gold	Apr. 21	Apr. 26	Apr. 26	JUNE 21, 1954
Granite State	Apr. 14	Apr. 19	Apr. 19	
Wilson's White				
Portrait	Apr. 7	Apr. 12	Apr. 12	
Queen's Lace	Apr. 7	1st Apr. 7	Apr. 7	
Yellow Lace		2nd May 3		
Bonnaffon Deluxe	Mar. 31	Apr. 5	Apr. 5	JUNE 28, 1954
Blazing Gold	Apr. 28	May 3	May 3	
Granite State	Apr. 21	Apr. 26	Apr. 26	
Wilson's White				
Portrait	Apr. 14	Apr. 19	Apr. 19	
Queen's Lace	Apr. 14	1st Apr. 14	Apr. 14	
Yellow Lace		2nd May 10		
Bonnaffon Deluxe	Apr. 7	Apr. 12	Apr. 12	JULY 5, 1954
Blazing Gold	May 5	May 10	May 10	
Granite State	Apr. 28	May 3	May 3	
Wilson's White				
Portrait	Apr. 21	Apr. 26	Apr. 26	
Queen's Lace	Apr. 21	1st Apr. 21	Apr. 21	
Yellow Lace		2nd May 17		
Bonnaffon Deluxe	Apr. 14	Apr. 19	Apr. 19	JULY 12, 1954
Blazing Gold	May 12	May 17	May 17	
Granite State	May 5	May 10	May 10	
Wilson's White				
Portrait	Apr. 28	May 3	May 3	
Bonnaffon Deluxe	Apr. 21	Apr. 26	Apr. 26	JULY 19, 1954
Blazing Gold	May 19	May 24	May 24	
Granite State	May 12	May 17	May 17	
Wilson's White				
Portrait	May 5	May 10	May 10	
Bonnaffon Deluxe	Apr. 28	May 3	May 3	
Blazing Gold	May 26	May 31	May 31	
Granite State	May 19	May 24	May 24	
Wilson's White				
Portrait	May 12	May 17	May 17	
Bonnaffon Deluxe	May 5	May 10	May 10	

Gloeckner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Pinch	Shade	Flower
Blazing Gold	June 2	June 7	June 7	AUGUST 2, 1954
Granite State	May 26	May 31	May 31	
Wilson's White				
Portrait	May 19	May 24	May 24	
Bonnaffon Deluxe	May 12	May 17	May 17	AUGUST 9, 1954
Blazing Gold	June 9	June 14	June 14	
Granite State	June 2	June 7	June 7	
Wilson's White				
Portrait	May 26	May 31	May 31	AUGUST 16, 1954
Bonnaffon Deluxe	May 19	May 24	May 24	
Blazing Gold	June 16	June 21	June 21	
Granite State	June 9	June 14	June 14	
Wilson's White				AUGUST 23, 1954
Portrait	June 2	June 7	June 7	
Bonnaffon Deluxe	May 26	May 31	May 31	
Christina	June 23	June 28	June 28	
Blazing Gold				AUGUST 30, 1954
Granite State	June 16	June 21	June 21	
Wilson's White				
Portrait	June 9	June 14	June 14	
Bonnaffon Deluxe	June 2	June 7	June 7	SEPTEMBER 6, 1954
Christina	June 30	July 5	July 5	
Blazing Gold				
Granite State	June 23	June 28	June 28	
Wilson's White				SEPTEMBER 13, 1954
Portrait	June 16	June 21	June 21	
Bonnaffon Deluxe	June 9	June 14	June 14	
Christina	July 7	July 12	July 12	
Blazing Gold				SEPTEMBER 20, 1954
Granite State	June 30	July 5	July 5	
Wilson's White				
*Royal Bronze				
Gypsy				SEPTEMBER 27, 1954
Red King				
Cadet	June 23	June 28	June 28	
Cover Girl				
Queen of Pinks				OCTOBER 4, 1954
Portrait				
Carole	June 16	June 21	June 21	
Bonnaffon Deluxe				

Gloekner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Pinch	Shade	Flower
Christina..... Blazing Gold.....	July 14	July 19	July 19	SEPTEMBER 13, 1954
Granite State..... Wilson's White..... *Royal Bronze.....	July 7	July 12	July 12	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	June 30	July 5	July 5	
Carole..... Bonnaffon Deluxe.....	June 23	June 28	June 28	
Christina..... Blazing Gold.....	July 21	July 26	July 26	
Granite State..... Wilson's White..... *Royal Bronze.....	July 14	July 19	July 19	SEPTEMBER 20, 1954
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	July 7	July 12	July 12	
Carole..... Bonnaffon Deluxe.....	June 30	July 5	July 5	
Christina..... Blazing Gold.....	July 28	Aug. 2	Aug. 2	
Granite State..... Wilson's White..... *Royal Bronze.....	July 21	July 26	July 26	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	July 14	July 19	July 19	SEPTEMBER 27, 1954
Carole..... Bonnaffon Deluxe.....	July 7	July 12	July 12	
Christina..... Blazing Gold.....	Aug. 4	Aug. 9	Aug. 9	
Granite State..... Wilson's White..... *Royal Bronze.....	July 28	Aug. 2	Aug. 2	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	July 21	July 26	July 26	
Carole..... Bonnaffon Deluxe.....	July 14	July 19	July 19	OCTOBER 4, 1954

* Pinch 10 days after shading is started.

Gloekner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Pinch	Shade	Flower
Christina..... Blazing Gold.....	Aug. 11	Aug. 16	Aug. 16	OCTOBER 11, 1954
Granite State..... Wilson's White..... *Royal Bronze.....	Aug. 4	Aug. 9	Aug. 9	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	July 28	Aug. 2	Aug. 2	
Carole..... Bonnaffon Deluxe.....	July 21	July 26	July 26	
Christina..... Blazing Gold.....	Aug. 18	Aug. 23	Aug. 23	
Granite State..... Wilson's White..... *Royal Bronze.....	Aug. 11	Aug. 16	Aug. 16	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Aug. 4	Aug. 9	Aug. 9	OCTOBER 18, 1954
Carole..... Bonnaffon Deluxe.....	July 28	Aug. 2	Aug. 2	
Christina..... Blazing Gold.....	Aug. 25	Aug. 30	Aug. 30	
Granite State..... Wilson's White..... *Royal Bronze.....	Aug. 18	Aug. 23	Aug. 23	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Aug. 11	Aug. 16	Aug. 16	
Carole..... Bonnaffon Deluxe.....	Aug. 4	Aug. 9	Aug. 9	
Christina..... Blazing Gold.....	Sept. 1	Sept. 6	no	OCTOBER 25, 1954
Granite State..... Wilson's White..... *Royal Bronze.....	Aug. 25	Aug. 30	Aug. 30	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Aug. 18	Aug. 23	Aug. 23	
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Aug. 11	Aug. 16	Aug. 16	
				NOVEMBER 1, 1954
Christina..... Blazing Gold.....	Aug. 18	Aug. 23	Aug. 23	
Granite State..... Wilson's White..... *Royal Bronze.....	Aug. 11	Aug. 16	Aug. 16	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Aug. 4	Aug. 9	Aug. 9	
Carole..... Bonnaffon Deluxe.....	July 28	Aug. 2	Aug. 2	
Christina..... Blazing Gold.....	Aug. 18	Aug. 23	Aug. 23	

Gloeckner Chrysanthemum Manual

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Pinch	Shade	Flower
Christina..... Blazing Gold.....	Sept. 8	Sept. 13	no	NOVEMBER 8, 1954
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 1	Sept. 6	Sept. 6	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Aug. 25	Aug. 30	Aug. 30	
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Aug. 18	Aug. 23	Aug. 23	
Christina..... Blazing Gold.....	Sept. 15	Sept. 20	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 8	Sept. 13	Sept. 13	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Sept. 1	Sept. 6	Sept. 6	
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Aug. 25	Aug. 30	Aug. 30	
Christina..... Blazing Gold.....	Sept. 22	Sept. 27	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 15	Sept. 20	no	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Sept. 8	Sept. 13	Sept. 13	NOVEMBER 15, 1954
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Sept. 1	Sept. 6	Sept. 6	
White Lady..... Beautiful Lady.....	Aug. 25	Aug. 30	Aug. 30	
Christina..... Blazing Gold.....	Sept. 29	Oct. 4	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 22	Sept. 27	no	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Sept. 15	Sept. 20	no	
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Sept. 8	Sept. 13	Sept. 13	
White Lady..... Beautiful Lady.....	Sept. 1	Sept. 6	Sept. 6	
Christina..... Blazing Gold.....	Sept. 29	Oct. 4	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 22	Sept. 27	no	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Sept. 15	Sept. 20	no	NOVEMBER 22, 1954
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Sept. 8	Sept. 13	Sept. 13	
White Lady..... Beautiful Lady.....	Sept. 1	Sept. 6	Sept. 6	
Christina..... Blazing Gold.....	Sept. 29	Oct. 4	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 22	Sept. 27	no	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Sept. 15	Sept. 20	no	
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Sept. 8	Sept. 13	Sept. 13	
White Lady..... Beautiful Lady.....	Sept. 1	Sept. 6	Sept. 6	
Christina..... Blazing Gold.....	Sept. 29	Oct. 4	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 22	Sept. 27	no	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Sept. 15	Sept. 20	no	NOVEMBER 29, 1954
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Sept. 8	Sept. 13	Sept. 13	
White Lady..... Beautiful Lady.....	Sept. 1	Sept. 6	Sept. 6	
Christina..... Blazing Gold.....	Sept. 29	Oct. 4	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 22	Sept. 27	no	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	Sept. 15	Sept. 20	no	
Carole..... Bonnaffon Deluxe..... Illini Formal.....	Sept. 8	Sept. 13	Sept. 13	
White Lady..... Beautiful Lady.....	Sept. 1	Sept. 6	Sept. 6	
Christina..... Blazing Gold.....	Sept. 29	Oct. 4	no	
Granite State..... Wilson's White..... *Royal Bronze.....	Sept. 22	Sept. 27	no	

* Pinch 10 days after shading is started.

Gloeckner Chrysanthemum Manual

Year-Around Pot Plant Schedule ONE-PINCH METHOD

Varieties	Plant 5 cuttings in 6" pot	Lighting Period	Pinch	Shade	Flower
Christina..... Blazing Gold.....	Oct. 6	Oct. 6 - Oct. 11	Oct. 11	no	DECEMBER 6, 1954
Granite State..... Wilson's White.....	Sept. 29	Sept. 29 - Oct. 4	Oct. 4	no	
Queen's Lace..... Yellow Lace.....	Sept. 22	None	1st Sept. 22 2nd Oct. 11	no	
Indianapolis White.... Dk. Indianapolis Yel.... Indianapolis Pink.....	Sept. 22	None	Sept. 27	no	
Red King..... Little America..... Queen of Pinks..... Portrait.....	Sept. 22	Sept. 22 - Sept. 27	Sept. 27	no	
Bonnafton Deluxe.....	Sept. 15	Sept. 15 - Sept. 20	Sept. 20	no	
Christina..... Blazing Gold.....	Oct. 13	Oct. 13 - Oct. 18	Oct. 18	no	
Granite State..... Wilson's White.....	Oct. 6	Oct. 6 - Oct. 11	Oct. 11	no	
Queen's Lace..... Yellow Lace.....	Sept. 29	None	1st Sept. 29 2nd Oct. 18	no	
Indianapolis White.... Dk. Indianapolis Yel.... Indianapolis Pink.....	Sept. 29	None	Oct. 4	no	
Red King..... Little America..... Queen of Pinks..... Portrait.....	Sept. 29	Sept. 29 - Oct. 4	Oct. 4	no	DECEMBER 13, 1954
Bonnafton Deluxe.....	Sept. 22	Sept. 22 - Sept. 27	Sept. 27	no	
Christina..... Blazing Gold.....	Oct. 13	Oct. 13 - Oct. 25	Oct. 25	no	
Granite State..... Wilson's White.....	Oct. 6	Oct. 6 - Oct. 18	Oct. 18	no	
Queen's Lace..... Yellow Lace.....	Sept. 29	None	1st Sept. 29 2nd Oct. 25	no	
Indianapolis White.... Dk. Indianapolis Yel.... Indianapolis Pink.....	Oct. 6	Oct. 6 - Oct. 11	Oct. 11	no	
Red King..... Little America..... Queen of Pinks..... Portrait.....	Sept. 29	Sept. 29 - Oct. 11	Oct. 11	no	
Bonnafton Deluxe.....	Sept. 22	Sept. 22 - Oct. 4	Oct. 4	no	
Christina..... Blazing Gold.....	Oct. 20	Oct. 20 - Nov. 1	Nov. 1	no	
Granite State..... Wilson's White.....	Oct. 13	Oct. 13 - Oct. 25	Oct. 25	no	
Queen's Lace..... Yellow Lace.....	Oct. 6	None	1st Oct. 6 2nd Nov. 1	no	DECEMBER 20, 1954
Indianapolis White.... Dk. Indianapolis Yel.... Indianapolis Pink.....	Oct. 13	Oct. 13 - Oct. 18	Oct. 18	no	
Red King..... Little America..... Queen of Pinks..... Portrait.....	Oct. 6	Oct. 6 - Oct. 18	Oct. 18	no	
Bonnafton Deluxe.....	Sept. 29	Sept. 29 - Oct. 11	Oct. 11	no	
Christina..... Blazing Gold.....	Oct. 20	Oct. 20 - Nov. 1	Nov. 1	no	
Granite State..... Wilson's White.....	Oct. 13	Oct. 13 - Oct. 25	Oct. 25	no	
Queen's Lace..... Yellow Lace.....	Oct. 6	None	1st Oct. 6 2nd Nov. 1	no	
Indianapolis White.... Dk. Indianapolis Yel.... Indianapolis Pink.....	Oct. 13	Oct. 13 - Oct. 18	Oct. 18	no	
Red King..... Little America..... Queen of Pinks..... Portrait.....	Oct. 6	Oct. 6 - Oct. 18	Oct. 18	no	
Bonnafton Deluxe.....	Sept. 29	Sept. 29 - Oct. 11	Oct. 11	no	

Gloeckner Chrysanthemum Manual

Pot Plant Schedule

TWO-PINCH METHOD

Varieties	Plant	First Pinch	Shade and Last Pinch	Flower
Christina..... Blazing Gold.....	June 9	June 21	July 12	SEPTEMBER 6
Granite State..... Wilson's White..... Royal Bronze.....	June 2	June 14	July 5	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	May 26	June 7	June 28	
Carole..... Bonnaffon Deluxe.....	May 19	May 31	June 21	
Christina..... Blazing Gold.....	June 16	June 28	July 19	
Granite State..... Wilson's White..... Royal Bronze.....	June 9	June 21	July 12	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	June 2	June 14	July 5	
Carole..... Bonnaffon Deluxe.....	May 26	June 7	June 28	
Christina..... Blazing Gold.....	June 23	July 5	July 26	
Granite State..... Wilson's White..... Royal Bronze.....	June 16	June 28	July 19	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	June 9	June 21	July 12	SEPTEMBER 13
Carole..... Bonnaffon Deluxe.....	June 2	June 14	July 5	
Christina..... Blazing Gold.....	June 30	July 12	Aug. 2	
Granite State..... Wilson's White..... Royal Bronze.....	June 23	July 5	July 26	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	June 16	June 28	July 19	
Carole..... Bonnaffon Deluxe.....	June 9	June 21	July 12	
Christina..... Blazing Gold.....	June 30	July 12	Aug. 2	
Granite State..... Wilson's White..... Royal Bronze.....	June 23	July 5	July 26	
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	June 16	June 28	July 19	
Carole..... Bonnaffon Deluxe.....	June 9	June 21	July 12	

Gloeckner Chrysanthemum Manual

Pot Plant Schedule

TWO-PINCH METHOD

Varieties	Plant	First Pinch	Shade and Last Pinch	Flower	
Christina..... Blazing Gold.....	July 7	July 19	Aug. 9	OCTOBER 4	
Granite State..... Wilson's White..... Royal Bronze.....	June 30	July 12	Aug. 2		
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	June 23	July 5	July 26		
Carole..... Bonnafton Deluxe.....	June 16	June 28	July 19		
Christina..... Blazing Gold.....	July 14	July 26	Aug. 16		
Granite State..... Wilson's White..... Royal Bronze.....	July 7	July 19	Aug. 9		
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	June 30	July 12	Aug. 2		
Carole..... Bonnafton Deluxe.....	June 23	July 5	July 26		
Christina..... Blazing Gold.....	July 21	Aug. 2	Aug. 23		
Granite State..... Wilson's White..... Royal Bronze.....	July 14	July 26	Aug. 16		
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	July 7	July 19	Aug. 9	OCTOBER 18	
Carole..... Bonnafton Deluxe.....	June 30	July 12	Aug. 2		
Christina..... Blazing Gold.....	July 28	Aug. 9	Aug. 30		
Granite State..... Wilson's White..... Royal Bronze.....	July 21	Aug. 2	Aug. 23		
Gypsy..... Red King..... Cadet..... Cover Girl..... Queen of Pinks..... Portrait.....	July 14	July 26	Aug. 16		
Carole..... Bonnafton Deluxe.....	July 7	July 19	Aug. 9		OCTOBER 25

Pot Plant Schedule

TWO-PINCH METHOD

Varieties	Plant	First Pinch	Lighting Period	Last Pinch	Shade	Flower
Wilson's White..... Granite State..... Golden Glory..... Royal Bronze.....	July 28	Aug. 9	Aug. 2 - Aug. 29	Aug. 29	no	NOVEMBER 1
Little America..... Gypsy..... Queen of Pinks..... Portrait.....	July 21	Aug. 2	no	Aug. 23	Aug. 23	
Bonnaffon Deluxe.....	July 14	July 26	no	Aug. 16	Aug. 16	
Wilson's White..... Granite State..... Royal Bronze.....	Aug. 4	Aug. 16	Aug. 4 - Sept. 6	Sept. 6	no	
Little America..... Gypsy..... Queen of Pinks..... Portrait.....	July 28	Aug. 9	no	Aug. 30	no	NOVEMBER 8
Bonnaffon Deluxe.....	July 21	Aug. 2	no	Aug. 23	Aug. 23	
Wilson's White..... Royal Bronze.....	Aug. 11	Aug. 23	Aug. 11 - Sept. 13	Sept. 13	no	
Little America..... Gypsy..... Queen of Pinks..... Portrait.....	Aug. 4	Aug. 16	Aug. 10 - Sept. 6	Sept. 6	no	
Bonnaffon Deluxe.....	July 28	Aug. 9	no	Sept. 4	no	NOVEMBER 15
Wilson's White..... Royal Bronze.....	Aug. 18	Aug. 30	Aug. 18 - Sept. 20	Sept. 20	no	
Little America..... Gypsy..... Queen of Pinks..... Portrait.....	Aug. 11	Aug. 23	Aug. 11 - Sept. 13	Sept. 13	no	
Bonnaffon Deluxe.....	Aug. 4	Aug. 16	Aug. 16 - Sept. 6	Sept. 6	no	
Wilson's White..... Royal Bronze.....	Aug. 25	Sept. 6	Aug. 25 - Sept. 27	Sept. 27	no	NOVEMBER 22
Little America..... Gypsy..... Queen of Pinks..... Portrait.....	Aug. 18	Aug. 30	Aug. 18 - Sept. 20	Sept. 20	no	
Bonnaffon Deluxe.....	Aug. 11	Aug. 23	Aug. 11 - Sept. 13	Sept. 13	no	
Wilson's White..... Royal Bronze.....	Sept. 1	Sept. 13	Sept. 1 - Oct. 4	Oct. 4	no	
Little America..... Queen of Pinks..... Gypsy..... Portrait.....	Aug. 25	Sept. 6	Aug. 25 - Sept. 27	Sept. 27	no	NOVEMBER 29
Bonnaffon Deluxe.....	Aug. 11	Aug. 23	Aug. 11 - Sept. 13	Sept. 13	no	
Wilson's White..... Royal Bronze.....	Sept. 1	Sept. 13	Sept. 1 - Oct. 4	Oct. 4	no	DECEMBER 6
Little America..... Queen of Pinks..... Gypsy..... Portrait.....	Aug. 25	Sept. 6	Aug. 25 - Sept. 27	Sept. 27	no	
Bonnaffon Deluxe.....	Aug. 18	Aug. 30	Aug. 18 - Sept. 20	Sept. 20	no	
Bonnaffon Deluxe.....	Aug. 18	Aug. 30	Aug. 18 - Sept. 20	Sept. 20	no	

Better Chrysanthemums

CUTTINGS

To grow good chrysanthemums, the first requisite is to start with *Verticillium* wilt and stunt-free cuttings. Wilt-free cuttings are easily secured. Now with the extreme care in selecting stunt-free stock and with careful handling, we are very optimistic in stating that stunt should be practically nil in the stock for the coming season.

Handling Cuttings

The cuttings you receive have been propagated in a material containing some organic matter which naturally has some plant food. Consequently these cuttings can be planted directly into the final location. Ordinarily they will not require shading, but if they have been several days in transit and have softened up some, or if they are planted during warm, bright weather, shading with aster cloth or paper is advisable. Under no circumstances leave the covering on the plants during dull weather or at night. It is well to syringe the plants frequently until they stand up and are showing signs of growth. Some evidence shows that watering with a starter solution (weak nutrient solution) within 48 hours after planting will speed up the growth.

Deliveries

With the advent of the time pinch and the precision method of culture, it is necessary to have your cuttings arrive at a definite date. To insure proper delivery, you must plan your cutting requirements months in advance of the date wanted. We would appreciate it if you could let us know your requirements so that our propagator can plan his growing of stock plants and cuttings even more systematically than he does.

To facilitate deliveries, cuttings will be shipped on Mondays and Tuesdays of each week.

Delays

With the reduced delivery schedule of the Railway Express Agency, there may be delays in delivering your shipments. Chrysanthemum cuttings can be injured from cold as well as being too long in transit. If the cuttings are slightly wilted, they should be immersed in water for a short period and then planted. They will

react perfectly to such treatment. If the cuttings have been slightly frozen, placing them in a cool room and thawing them out gradually, or placing them in a pail of cool water to take the frost out will bring them through so that they will do just as well as cuttings that have had nothing happen to them. Of course, if stock is badly frozen, or if long delays have occurred so that the cuttings are heated, yellow or rotted, **you should file a claim at once with the express company.**

Air Freight

We have been very well satisfied with the use of Air Freight to deliver rooted cuttings this past season. Customers who are close to an airport are naturally served better than those who have to have their shipment reconsigned via Railway Express. If you plan to use air freight, you should have your telephone number appear on all shipping labels.

Premature Budding

But initiation can occur anytime during the spring months, whenever your temperatures in the greenhouses are consistently 60 degrees Fahrenheit or above, and the days are short enough to initiate bud setting. These conditions can occur anytime up until May 1st depending upon the variety and the locality in which they are being grown. Some varieties, such as the garden varieties and early shading varieties, require very little short-day treatment, coupled with high temperatures to initiate buds. This same tendency to set bud readily is what makes these varieties desirable for early shading and garden work. In order to prevent this premature setting of buds, these same varieties should be placed where they can be given additional light during the early spring months. Use 60-watt bulbs spaced 4 feet apart and 24 inches above the plants. Three hours of light during the middle of the dark period will prevent budding completely if the minimum intensity is 8-foot candles. The same treatment on either end of the night might not be effective if you have a particularly cloudy period which gives you extremely short day.



Strong Cuttings Spaced Well in Propagation Medium Will Produce Healthy Well-Rooted Cuttings

Cultural Pointers

SOILS

Chrysanthemums will grow in a wide range of soil types, but a fibrous silt-loam is preferred. Blue grass sod, to which rotted manure has been added, plus an application of superphosphate will give excellent results. The reason for the great care in soil preparation is to permit penetration of water and a uniform supply of fertilizer. If water remains on the surface of your soil for more than a few moments after watering, your soil is not of good structure.

Acidity

Evidence shows that the soil reaction should be slightly acid, pH 6.5, although in many instances a neutral medium does very well. If your soil tests slightly alkaline, apply one-half to one pound of agricultural sulfur per 100 sq. ft. of area. However, if your soil is acid, apply 3 to 5 pounds of agricultural ground limestone per 100 sq. ft. of area.

Steam Sterilization

Steam sterilization is the only practical means known to destroy the Verticillium wilt organisms present in many soils. The cuttings you purchase are free from wilt, but if planted in soil that is not steam sterilized, many will contract the trouble.

Old soil, when properly managed, will give results comparable to fresh soil. Add a quarter of the volume of humus in the form of manure or peat moss. Steam sterilize to destroy the Verticillium wilt fungus, as well as improve the structure of the soil. Steam sterilization may be done with the use of 3-inch tile or down spouting with one-eighth inch holes drilled every 6 inches on each side of the pipe. Use 2 lines in a three and one-half foot bench. Ridge the soil to the center of the bench directly over the lines, covering with a tarpaulin, canvas or Sisalkraft. The Thomas method is very similar,

with the exception that the pipe is laid on top of the rototilled soil and then covered so as to make it airtight. The Thomas method is not recommended where purlin posts are in the bench.

By introducing the steam in the center of a 100-foot bench and sending the steam in both directions, a more thorough sterilization is accomplished than if the steam were to be forced in at the end of the 100-foot bench. Cover the sides of the benches so that the entire bench and contents are heated to 180 degrees Fahrenheit. Remove the covering one hour after the steam has been cut. This allows the excess moisture to pass from the soil as vapor. We are now recommending that you plant immediately after the soil has cooled. Water in the plants heavily so that you are combining watering and leaching into one operation. Continue to water heavily every time you water.

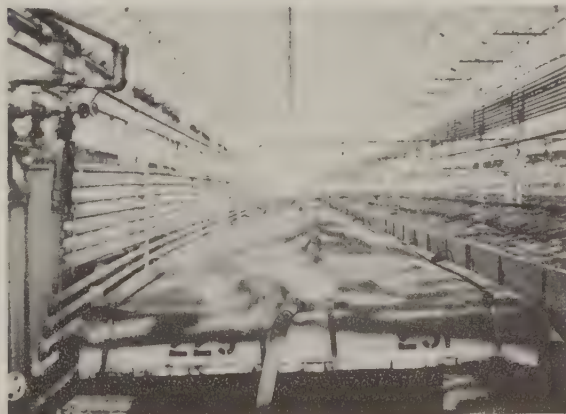
Chemical Sterilization

A chemical which has proven its worth is Larvacide. This material must be used when the greenhouses are empty to avoid injury to adjoining crops. This gas is applied in liquid form with a special applicator so that 2 or 3 c.c. are applied at 10-inch centers. The soil should be moist before applying. A good suitable covering should be placed over the treated soil to keep the gas in the soil for at least 48 hours, although a water seal applied 2 to 3 times every 24 hours will suffice. The soil temperature should be at least 60 degrees or higher. When used properly you can expect favorable control of insects, diseases and weed seeds.

Dowfume MC 2 has been tried and found to control nematodes, weed seeds, and some damping-off organisms. Best results are obtained when the soil temperature is above 60 degrees. About the same procedure should be followed in its application as that described for Larvacide.



Supporting Standards with the String Method



Thomas Method of Steam Sterilization

Cultural Pointers

SOILS — (Continued)

Aeration

Proper drainage and proper aeration of the soil are very vital to good growth. Many times improper drainage of the bench or bed is the reason for a poor crop. No wet spots should ever be present. Soil drainage may be improved by the addition of various materials. Any coarse organic material such as manure, alfalfa hay or clover hay applied at a rate not to exceed one-fourth the volume will separate the soil particles sufficiently to increase pore space.

Adding several bushels of peat per 100 sq. ft. of bench area before planting and worked into the top inch of the soil will help keep the surface open and porous. Heavy applications of sand to a soil have not always proven of value to a chrysanthemum crop. Aeration may also be increased by proper cultivation of the soil.

Soil Management

Soils vary a great deal over the country, and yet many good crops of chrysanthemums are grown on all types of soil. Soil itself is not the most important factor, but soil management is of extreme importance. In considering the management of the soil, the following steps are suggested:

1. Apply a quarter of the volume of manure or other organic substitute once a year, usually just before steam sterilization. Rototill organic matter into the soil. When growing on ground beds, watch the tilling so that no impervious layer is formed which will later cause poor drainage.
2. Steam sterilize the soil to a temperature of 180 degrees Fahrenheit at least once a year. Usually this is done during the summer months.
3. Apply 5 pounds of super phosphate per 100 sq. ft. of area once a year.
4. After each steam sterilization apply 5 pounds of gypsum (Calcium sulfate) per 100 sq. ft.
5. Test soil for acidity and make correction before planting.

6. Add several bushels of granular peat per 100 sq. ft. of area before planting and working into the top inch of the soil.
7. Plant immediately after the soil cools. Waiting a week or two will increase the soluble salts into a dangerous concentration.
8. Water heavily after planting so that you are combining watering and leaching. Continue to water heavily until the plants have become well established.
9. Maintain the following nutrient levels:

Nitrate Nitrogen	5-10 p.p.m.
Phosphorus	5-10 p.p.m.
Potassium	20-40 p.p.m.
Calcium	200-250 p.p.m.
Solubridge reading	40 or lower
10. Apply a complete fertilizer at time of bud initiation. Heavy watering and frequent light fertilizing will make chrysanthemums grow.



Terminal Spray Formation Resulting from Time Pinching Showing Cornell Weight Grades

Cultural Pointers

FERTILIZERS

Soil structure is the key to soil fertility. The response of chrysanthemums to fertilization depends upon a favorable soil structure. It is known that plants require nutrients, water and air for growth. Good soil structure will provide proper air and water relationships. Therefore, it behooves us to give proper attention to the soil before starting the crop. Good open soil is a necessity.

Feeding

Chrysanthemums do much better right from the start if the soil is not too rich. Very often this crop will start off faster in new soil as compared to old soil that has been sterilized just because of the lower nutrient level in new soil. When using new soil, apply 5 pounds of superphosphate per 100 sq. ft. of area, plus a liberal application of manure before planting. Phosphorus moves slowly within the soil mixture. It should always be added before the crop is benched so that it may be mixed thoroughly into the soil. One to two applications of a complete fertilizer, such as Electra, made after the plants become established and until color shows will be adequate. Electra applied at the rate of 2 pounds per 100 sq. ft. of bed is sufficient. Never apply fertilizers to a dry soil. Water lightly first, then apply the proper quantity of fertilizer, and then water heavily. Liquid feeding with water-soluble fertilizers is fast becoming the popular method of applying fertilizer. Remember that the plant is the best guide to fertilizer requirements and that more mums are ruined by over-feeding than by nutrient deficiencies.

Levels of Nutrition

When using sterilized soil, the best recommendations to follow would be to analyze your soil from time to time. We have found that when the following nutrient levels are kept, good crops are the result. Nitrate nitrogen should be 5-10 p.p.m.; phosphorus 5-10 p.p.m.; potassium 20-40 p.p.m. and calcium near 200 p.p.m. To increase the nitrate level, feed one pound of ammonium sulfate per 100 sq. ft. of area, and to bring up the potassium, apply muriate of potash not to exceed 1 pound per 100 sq. ft. If phosphorus is needed, apply mono-calcium phosphate at the rate of 1 pound per 100 sq. ft.

A liberal application of calcium sulfate (gypsum), 5 pounds per 100 sq. ft., after steam sterilization will prevent injury to young roots. High phosphorus also reduces toxicity after sterilization.

In the cooler weather and shorter days of September, omit the nitrogen if the plants are growing freely. The mum assimilates more phosphorus and potassium during the time of bud initiation. Therefore, it is desirable to apply a complete fertilizer shortly after the buds are visible.

Soluble Salts

Soluble salts are chemical compounds consisting of an acid part (ion) and a basic part (ion). For example,

common table salt, sodium chloride, consists of one ion of chloride and one of sodium. Chloride is an acid-forming ion, and sodium a basic or alkali-forming ion. The two combine in chemically equivalent quantities to form a neutral salt. Other common acidic ions are sulfate, nitrate, bicarbonate and phosphate. Other common basic ions are calcium, magnesium, potassium and ammonium. Any basic ion may combine with any acidic ion giving rise to a great variety of salts.

All plant nutrients which are absorbed by plants from the soil or from culture solutions are absorbed in the form of salts or their constituent ions. All organic materials become "mineralized" through decay processes, and the nutrients in them are converted into salts before being absorbed by plants. Some salts contain plant nutrients and are beneficial in the small quantities required for plant growth. Others contain no nutrients. All salts are harmful beyond the small quantity required for plant growth. A little is bad, more is worse, up to the point where plants will be killed. Salts are found in most water and are applied as fertilizer. Improper watering may permit a concentration into the harmful range. Instruments called Wheatstone's bridges are available which measure total soluble salts in terms of electrical conductivity or conductance. Many laboratories of the Agricultural Extension Service are equipped with Solubridge instruments for use in assisting with soluble salt problems.

It has been found that when planting rooted cuttings, the Solubridge readings should not be higher than 40, while established plants do not withstand readings of 100 without showing some harmful effects. To remedy excess soluble salts, apply 2 to 3 gallons of water per sq. ft. and leach out this high salt content.



Laboratory Procedure Used in Developing Disease Free Cuttings

Cultural Pointers

PLANTING

Chrysanthemums grow equally as well on a raised bench or on a ground bed. The care is slightly different in that raised benches dry out more frequently during the summer and early fall months. It must be remembered that a good circulation of air is desirable, yet a direct draft is not advisable.

Planting Date

The proper date of planting will naturally vary according to when the crop is to bloom. For natural blooming we prefer to plant 3 or 4 weeks before the last pinching date. When flowering from August to October, we suggest you plant 3 weeks before the pinching date. In the year-around flowering schedule where no pinch is followed, we have given the advised planting dates in that schedule.

Planting Rooted Cuttings

Many florists are planting rooted cuttings directly into permanent locations. This not only reduces several handlings and production costs, but also produces a better-quality bloom. We fully realize that it is often an impossibility for all to treat their chrysanthemums this way. However, we have found that young, soft plants are superior to hard, woody plants. Never plant cuttings any deeper than what they were in the propagating media; too deep will cause stem rot. Water heavily after planting. If new white roots are not formed within the first 12 hours, something is not quite right.

Single-Stem or No-Pinch Method

Cuttings are planted and allowed to grow without pinching. It is an essential practice if 3 crops a year are to be realized in the year-around flowering schedule. Where crops are planted from September 15 to February 1, no-pinch method produces a superior crop, whereas a pinched crop is weaker and of poorer quality.

Light Intensity

When planting rooted cuttings into their permanent position, it is necessary to shade the glass or to put aster cloth directly over the young plants until they are established. When shading the glass, be sure that the material is applied lightly.

When growing quality chrysanthemums, the higher the light intensity or the least amount of shade over the plants during the growing season, the better the quality of bloom. For cloth houses, the amber Saran is superior to the green because of more light under the

amber covering. Naturally the plants require more water when growing under high light intensities.

It is recommended to shade the plants when flowers are about one-half open to prevent them from sunburning. When growing standards, a good practice would be to stretch muslin directly over the open blooms. This not only prevents sunburning but also keeps the blooms free from dirt.

Distance of Planting

For good quality pompons, we prefer to plant 7x8 inches or 8x8 inches pinched once, and thin the shoots to 3 per plant. The outside rows will support one more stem than the center rows in the bed. Nothing is gained by planting at a closer distance. Light intensity should be high at the base of the plant for quality blooms, and if planted too closely, we have lost the factor which promotes quality. Large-flowered varieties are generally planted 8x8 inches or 8x9 inches; this also applies to disbud anemone and single varieties.

For single stem, no-pinch method pompons should be spaced 4x6 and standards 5x6. When further spacing is used the sprays of the pompons become too large.

PLANTING DISTANCE FOR NO-PINCH METHOD

Pompons	4 x 6 inches
Standards	5 x 6 inches



Applying Additional Light to an Entire House

Gloeckner Chrysanthemum Manual

Cultural Pointers

PINCHING

For a good number of years, the reason for pinching was to regulate the number of stems on the plant. In recent years, we have learned that in the case of pompons or singles the pinching determines the type of spray formation. With standards, pinching will determine the type of bud formation, whether it be a crown or terminal bud.

Time Pinching

The precision culture of chrysanthemums is all set up around the "Last Pinch." To grow a quality pompon, you should receive the rooted cuttings sometime in June, July or August and then plant into the permanent location approximately 3 weeks before the date listed in our list of varieties under "Last Pinch."

Under the heading "Chrysanthemum Flowering Schedule" you will find the exact pinching dates for all planting dates. The table below will indicate the time to pinch after planting, according to various planting dates:

When planting **Nov. 15 to Feb. 14** allow **4 weeks** plant to pinch.

When planting **Feb. 15 to Nov. 14** allow **3 weeks** plant to pinch.

Time pinching standards will eliminate the formation of the crown bud and produce terminal buds which will in turn produce a much straighter flowering stem.

Pruning

Another important factor is to remove all shoots but 3 or 4 per plant. In a few instances only 2 shoots are allowed to mature. Allow more shoots to develop on the outside rows than on the center rows of a bed. When fewer breaks are selected, the planting distance should be closer. If you prefer to have a number of

smaller sprays, with fewer blooms open at one time, follow the double-pinching procedure.

Standards are usually pinched once to induce breaks so that they may be grown 2 per plant. The strongest breaks are selected and all others removed. It is well to pinch on the date suggested in the general list. Careful observation has shown us that neckiness with some varieties is eliminated by pinching on the respective dates. Singles and anemones are usually grown 3 to 4 stems per plant.

Condition of Plant

When pinching, remove only the soft growth, never cut into the woody stems as this will not produce the type of breaks you desire. It is our experience that it is best not to pinch until the plant has become well established in its permanent location. In all cases, it is better to have at least 8 to 10 inches of growth on the plants before pinching. (Photos below.)

When double pinching, pinch the first time 30 days before the "Last Pinch." This allows enough time to produce a growth long enough to pinch at the proper time.

If by chance you are delayed in planting, and your plants will be too tall, it is advisable to pinch early enough before benching so that the breaks will be several inches long at time of planting. Never pinch hard plants at the same time they are planted in the bench as a heavy loss may result. Better wait until plants are established and then pinch.

The last pinching dates given after each variety will help you grow that variety to excellency. Remember that pinching is just one cultural point and will only function when all other cultural points are carried out properly.



Well-Established Young Plant



Top Several Inches Removed



**Strong Breaks Resulting
from Single Pinch**

Cultural Pointers

DISBUDDING

Large-flowered varieties produce side shoots in the axils of the leaves which should be removed very close to the base at regular weekly intervals. Disbuds are handled the same as standards.

Taking Bud

Taking bud means allowing the flowering bud to remain and removing all others and applies to standards and disbuds. The chrysanthemum usually produces two distinct types of flowering buds—Crown and Terminal. The first bud produced is called the crown bud and is distinguished by being surrounded by other lateral leaf buds. The second is the terminal bud and is surrounded by several flower buds. If the plant is planted especially early, a second crown bud may appear. In appearance, this second crown bud is exactly the same as the first.

The procedure of "Taking Bud" depends very largely on the variety. Usually the safest rule to follow is not

to select a bud on early or midseason varieties before August 25. In our list of large-flowered varieties under "Select Bud" you will find the date on which to select the proper bud. If bud is selected too early, a large percentage of the flowers will be crippled. Good common sense must be used to determine the proper selection of bud.

The formation of the crown bud usually does not take place when growing according to the "Time Pinch Plan." When following "Time Pinch," select the first bud that appears. This will result in straight stems without the dogleg growth that appears when second bud is taken.

The final selection of bud should not be made when the cluster buds are too small as this will very likely cause injury to the stem near the bloom. Likewise, it is not advisable to delay selecting the bud too long. Some growers like to leave an alternate bud until they are certain that nothing will happen to the one finally selected.

DISBUDDED SPRAY

The procedure in growing disbudded sprays is to wait until the crown bud forms, then remove all but three vegetative shoots. Later, when terminal buds appear, disbud each shoot similarly to the normal disbudding of standards. When the blooms mature, there are three flowers on each spray. In singles and anemones, the size of the blooms will be a trifle smaller than when they are grown as one flower per stem. Raise 3 stems per plant, similar to straight disbud. Varieties such as

Goldsmith, Valencia, etc., can be grown as disbudded sprays.

Good chrysanthemums result from the careful thorough practice of the basic principles of plant growth, plus the acknowledgment of certain differences in the nature of various varieties. Growing disbudded sprays is a modification in culture which is very much worthwhile.



Early or Crown bud surrounded by lateral buds



Late or Terminal bud surrounded by flower buds



Late or Terminal bud selected

Cultural Pointers

WATERING

The knowledge of proper watering is essential to success. Chrysanthemums produce extremely heavy foliage, and a great deal of water is required at the roots. And under ordinary conditions of bench culture, overwatering would be difficult. When grown in beds, more care should be exercised in watering. Some soils look wet on the surface but are very dry several inches below.

When planting rooted cuttings directly into their permanent locations, it is essential to water thoroughly to set the soil around the plant roots. We suggest double watering again when the soil gets on the dry side. By this time, the plants are established and regular watering should be followed. Keep humidity in the house by wetting down bench and walks.

Steam sterilization causes the soil to become more granular, and capillary movement of water in it is much slower than in soils not steamed. Cuttings planted in it cannot obtain water readily, and for this reason should be kept more moist than in soils not sterilized.

Surface Watering

During the past several years, many labor-saving devices have been developed. Surface watering is one that will save many hours of hand watering your chrysanthemum crop.

The Skinner Superior nozzle is the final answer to the exacting requirements of surface watering. An absolutely flat uniform spray is obtained over a full circle with a constant pattern under any pressure. This nozzle throws a fine spray 5 feet in diameter at 5

pounds pressure at the nozzle, and uses 0.9 gallons per minute.

When installing surface watering, check your water supply and the capacity needed to irrigate your area. It is advisable to have an engineer figure out your requirements.

Leaching

Many greenhouse soils are excessively rich, and chrysanthemums will not thrive in such a medium. If this is the case, the remedy is leaching with water. After the soil is sterilized, it should be leached. Use a Skinner line and allow it to run for hours if necessary. Raised benches do not require as much water to leach.



Superior Nozzle Showing Uniformity of Pattern

GRAFT INDEXING

Graft indexing to eradicate stunt has become standard procedure with Yoder Brothers, Inc. This was made necessary by the fact that certain varieties express visual symptoms of the virus much more readily than others. There are some varieties which are seemingly tolerant to stunt and which have never been known to express clear-cut symptoms of stunt virus. Others, such as Blazing Gold, for example, will indicate the usual symptoms very readily. In order to check those which do not express the usual symptoms readily, the technique of graft indexing was developed whereby a variety such as Blazing Gold serves as the understock and the variety to be checked for virus is grafted on to Blazing Gold. By this method, it can be told

within 2 months whether stunt virus is present or not. By making selections in this manner, it is possible to eventually select out mother stock of all varieties, and by careful isolation practices, maintain them stunt-free. Until this is accomplished, there will be the chance that certain few varieties, although they do not show any symptoms, may be carriers of the virus and act as sources of infection for other varieties.

Several other virus expressions have made their appearance since stunt. You probably have heard of **Mosaic, Aster Yellows, Rosette and Asperimy**. Fortunately, by the use of the above technique, these are isolated early, before any of them will have become so widespread as to cause any great difficulty.

Cultural Pointers

TEMPERATURE AND LIGHT

Chrysanthemums grow most rapidly under conditions of high light intensity and with a temperature above 60 degrees Fahrenheit. Shading to reduce the light intensity is very rarely needed. Usually shading on the glass is more beneficial to the workers than it is for the growth of the plants. However, if shade is used it should be removed by August 15.

Temperatures much above 90 degrees will act as a prohibitor. When the night temperatures are in the 90's, bud development is hindered. This is especially true when black-clothing in the hottest part of the year. To reduce high temperatures under the black cloth, it is suggested that the sides of the cloth be lifted after sundown and dropped again before the sun rises in the morning. During high temperature periods, it is much better to apply the cloth later in the afternoon and allow it to remain later in the morning.

Temperature has been responsible for peculiar types of flowers. The Indianapolis varieties develop quilled and flat blooms when allowed to develop under low temperatures. Many varieties will develop black centers in the flower when grown under high temperatures and low light intensity.

Pink and bronze colors just do not develop when the temperatures are high in the early stages of flower development. If good color is desired in pink and bronze varieties the night temperature should be 50 to 55 degrees during the development period. High light intensity and low temperatures are conducive for good color development. Many of the newer varieties will develop better color during hot summer months than the older varieties. Low moisture during the period of bud development intensifies the color. The pinking of white varieties and the bronzing of yellow varieties results as the flowers develop at low temperatures.

Blindness

Blindness is associated with temperature. When plants are grown below 50 to 55 degrees during the bud in-

itiation period, many varieties will produce blind growth. In "Year-Around Flowering" we have found that chrysanthemums should be grown in a 60-degree temperature to insure good bud development. However, there are some varieties which require a higher temperature, and there are likewise varieties that will initiate their buds at a lower temperature; but it is safe to recommend a 60-degree temperature. Cornell workers found that growing the stock at different temperatures will affect the flowering of some varieties.

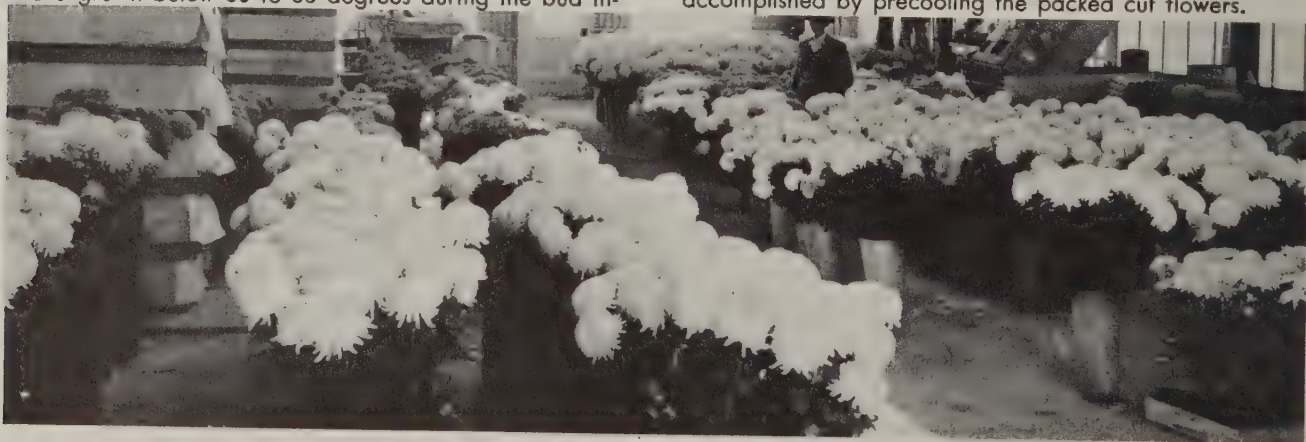
Petal Burn

When blooming chrysanthemums during high temperatures and high light intensity, it is advisable to cover the beds with a cheesecloth stretched about 18 inches above the top of the developing blooms. This covering will also help keep dirt off the open blooms. Sunburn sometimes is confused with flower ray blight, which is caused by Botrytis. Botrytis is more abundant during periods of high humidity and low temperatures. Ray blight can be controlled by spraying with **Parzate** when the color shows and then repeating the application every 5 days.

Shipping Flowers

Packing of cut flowers should be carefully studied. The most common error is over-crowding in the shipping boxes. Not securely fastening the blooms in the box will cause bruising of the petals. Cleating or sewing the stems to the box is essential. Cushion the blooms by placing enough padded paper on the bottom of the corrugated box and between the layers of blooms. Wrap the pompons with a loose wrapper. The wrapping paper could have the name of the grower printed on it. Chrysanthemum "Saf-Pak" are very helpful in shipping standards to market. One dozen blooms are held securely in one "Saf-Pak" holder.

Long distance shipments carry better if the cut flowers are packed dry. Reduction of temperature is accomplished by precooling the packed cut flowers.



Packing Shed with Ample Room

Gloeckner Chrysanthemum Manual

Cultural Pointers

Supports

With high labor costs, it has become necessary to eliminate some of the labor in supporting standards and disbuds. The old way of supporting with stakes or stringing each plant has given way to the box-wire and cross-string method of support. Turn-buckles placed near the end of the bed will keep the wires much tighter. Some growers are only using one layer of wire and cross strings and are gradually raising it as the crop grows. Many still use two layers of wires and also raise the top wire as the crop grows.

Pompons are usually supported by the string and wire method similar to that described above. Two layers of wires are necessary to give the pompons good support. When growing out-of-doors or in cloth houses, heavier wire is necessary to give proper support, because moisture often collects in the open blooms causing extra weight.

Southern Culture

It is true the material presented in this manual is primarily from experience gathered for the northern part of the United States. Yet many of the pointers are similar for all parts of the country.

We have noted that the early-flowering varieties from October 15 to November 1 flower approximately one week later in the southern states, while those flowering naturally November 15 to December 1 bloom one week earlier than the dates given in this manual. Last Pinch dates will have to be governed accordingly.

When shading, it has been suggested that the black cloth be placed on the beds late in the evening, 7 or 8 p.m. and left on until 8 or 9 a.m. Shading the usual time traps the excessive heat under the cloth and ap-

pears to affect foliage and flower buds. Pink and bronze varieties used for shading and early normal production fade to inferior colors.

During the months of July and August, little growth may be expected, therefore fertilization should be kept to a minimum. When the nights get cooler in September, October and November, growth is more rapid, and the fertilization program should be stepped-up accordingly.

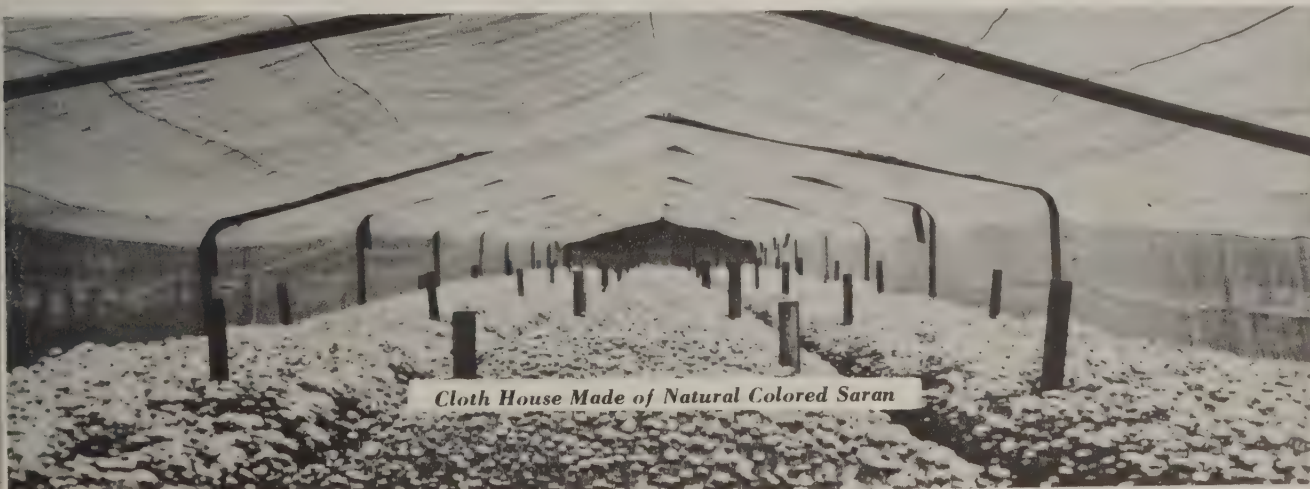
The young plants should be illuminated until May 1 to prevent premature flower buds.

The length of day is constantly changing. In Ohio the shortest day has 9 hours of light, while the longest day length is 15 hours. In Florida, it varies from 10 for the shortest and 14 for the longest. In Ohio, the day length will change about 15 minutes each week.

Cloth Houses

Much has been written about the construction and care of the cloth house. It seems that this subject is well taken care of, although there are a few new ideas that should be mentioned.

To grow quality stock, it is necessary to use some type of covering such as aster cloth, onion bag or Saran. Saran is manufactured by Dow Chemical Co. and is a plastic that will outlive copper screening. There are several colors of this material, and the natural-colored Saran produced better quality pompons than did the green-colored material. The amber-colored Saran allows more light to reach the plants. The plants growing under natural-colored Saran required twice the amount of water as did those under the green cloth. The important difference is that higher-quality stock was produced under the natural-colored Saran.



Cloth House Made of Natural Colored Saran

Insects and Their Control

Aphids, or Plant Lice

All aphids are true sucking insects that insert their beaks through the surface of the leaf or stem and extract the juices from within.

INJURY. The feeding of aphids causes the plants to become sickly and stunted. The leaves curl inward, and when the flower terminal is infested, the blooms will be deformed. Certain varieties of chrysanthemums are more susceptible to attack than others.

CONTROL. **Nicofume Fumigation** is an easy method of controlling the black aphid but will do very little to control the green or straw-colored aphids. **Lindane** or **Parathion** is much more effective on the very resistant green or straw-colored aphids. **Vapotone** is also effective when used at higher concentrations. **Malathion** good for control of aphid and spider mite.

Chrysanthemum Leaf Miner

The larva or maggot disfigures and weakens chrysanthemum plants by mining in the leaves. It may do considerable harm to the crop, but is easily held in check.

INJURY. The young maggots burrow in the leaf tissue, leaving the upper and lower surfaces intact. The tunnels are irregular and winding. White blotches are thus formed, which later turn brown, and the leaves may die.

CONTROL. As soon as it is noticed that any leaves are infested, they should be picked off. **Parathion** or

TEPP aerosol bombs or sprays, containing **Lindane**, **Chlordane** or **Parathion**, are very effective.

Chrysanthemum Midge

The chrysanthemum midge is one of the most serious pests with which the grower has to deal. Under optimum conditions, a little over a month is required to complete the life cycle from the egg to the adult. The eggs are reddish-orange in color and are usually deposited on the tender tips of the growth. Under favorable conditions, the eggs hatch in about three days. The larva wanders about over the surface of the leaf for a day or two before finally penetrating into the leaf.

INJURY. The midge attacks all parts of the plant but prefers the tender growth. If the infestation takes place when the plants are small, they fail to grow, although if the plants are well-developed when the infestation starts, the buds blight or are deformed, and the plant is rendered unsalable.

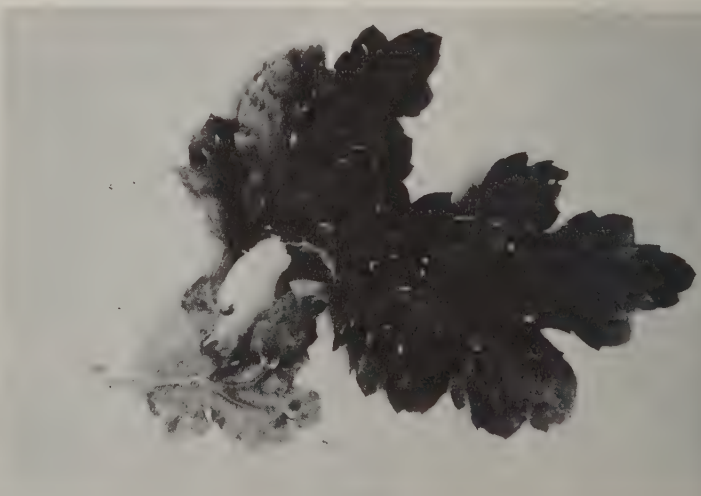
CONTROL. **Lindane** is effective against young and adults.

Parathion aerosols effective, but require frequent applications.

DDT effective against adults—repeated applications necessary.



Aphids



Midge Injury

Gloeckner Chrysanthemum Manual

Insects and Their Control

Corn Ear Worm

The corn ear worm is a green to brown, nearly smooth caterpillar often mistaken for a cutworm when found within the buds or on the open flowers.

INJURY. It is very destructive to the opening buds, for it feeds on their petals and other parts, deforming if not entirely ruining the flowers.

CONTROL. If the attacked plants are blooming, spraying is out of the question, but thorough treatment with a 3 or 5% **D.D.T.** dust is recommended. After they have worked their way into the buds and are found to be feeding on the open flowers, hand-picking is the only remedy. Spraying the plants with **Deenate 50W** will control them before the color shows. **Parathion** fumigation will also keep them under control.

Cutworms

The larva is dull colored and from one to more than 2 inches in length. They are most active at night, and usually spend the day coiled up just under the surface of the soil at the base of the plant. They should not be confused with the corn ear worm, which cannot be controlled by poison baits.

INJURY. Cut worms obtain their food by biting out sections of the leaf, stem or bud. Various species attack different parts of the plant. The one that is most damaging climbs to the top of the stem and eats into the flower buds.

CONTROL. Those cutworms that feed on the foliage can best be controlled with **Deenate 50W** spray using 1½ pounds to 100 gallons of water. **Parathion**

has been suggested as a good control measure and is more effective as a spray.

Greenhouse Leaf Tyer

It gets its name from its habit of spinning light webs inclosing 2 or more leaves or tying together the parts of a single leaf. This caterpillar is very active, and when disturbed, will wriggle off the leaf, often backwards, lowering itself on a silk-like strand.

INJURY. When first hatched, the larvae eat out shallow holes on the under side of the leaf. As they grow, they enlarge these holes but usually do not cut through to the upper surface. The result is that the leaves become skeletonized.

CONTROL. The best poison to control the larvae is **Deenate 50W**, either in the form of a dust or a spray. For liquid spray use 1½ pounds of **Deenate 50W** to 100 gallons of water. Regular fumigations with **Parathion** will keep the leaf tyer under control. The leaf roller is best controlled with **Parathion** or **TDE**. **TDE (Rhothane)** is closely related to DDT and it is used at the rate of 2 pounds of 50% wettable powder to 100 gallons of water.

Mealy Bugs

Mealy bugs are small, sluggish, whitish, soft bodied insects, measuring up to one-quarter inch long, found in clusters on the undersides of the leaves or in the leaf axils.

INJURY. This pest sucks the juices from the stems and leaves, discoloring and deforming the foliage.

CONTROL. **Parathion** or **Dithio** are the most effective. Repeated applications necessary.



Corn Ear Worm Damage



Leaf Tyer



Mealy Bugs

Insects and Their Control

Mites

Cyclamen mite and broad mite are often found on the same plants at the same time. Broad mite could pass through a complete generation in 4 to 5 days at 70 to 80 degrees, while the cyclamen mite will take 4 to 5 times longer.

INJURY. Infested leaves become deformed, curl from the outside inward, and wrinkle so that pockets and pit-like depressions are formed. When the infestation is severe, the mites collect about the buds, causing them to blight. Oftentimes white varieties will show occasional red petals.

CONTROL. Parathion dusts or sprays are more effective than bombs. **Vapotone** containing **HETP** has given good control. **Sodium Selenate** is effective when applied in liquid form one-quarter gram per sq. ft. after plants are well established. **P40** used at the rate of 3 pounds per 100 sq. ft. is another way to use Sodium Selenate. **Systox** used as a soil drench has been found effective in mite control.

Red Spiders

There are several species of red spiders that attack the chrysanthemum. They vary in color through yellow, orange and red. The body is oval in outline and bears 8 well-developed legs.

INJURY. Red spiders pierce the epidermis of the leaf and draw the liquid contents from the cells, causing the leaf to turn pale around the injured portion. They prefer to collect on the under surfaces of the leaves, which they cover with silken threads.

CONTROL. **Parathion** or **TEPP** bombs are most effective and easiest to apply. **HEPT** or **TEPP** contained in insecticides such as **Vapotone** are by far the most effective on red spider. Moisture is detrimental to the development of the red spider, and frequent syringing washes them and their eggs off the plants. **Sodium Selenate** is effective when applied in liquid

form one-quarter gram per sq. ft. or **P40** at 3 pounds per 100 sq. ft. after plants are well established; especially desirable for cloth house operators, will also control foliar nematodes. **Systox** emulsion used as a soil drench has also been found effective in mite and aphid control on outdoor plantings. **Plant-fume 103** smoke generators and **Fulex Parathion Fumigators** are simple to use and very effective. The latest control is **ARAMITE 15-W**. **Dithio** is much safer than other insecticides when used on open flowers.

Symphylids

Symphylids are small white creatures about one-eighth to three-sixteenth inches long. About 40-60 days are necessary for the completion of the life cycle.

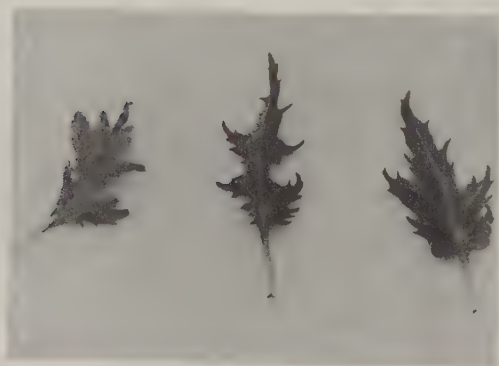
INJURY. Symphylids destroy the fine root hairs and small rootlets, thus stunting the plants and often killing them outright.

CONTROL. Complete control can be obtained with **Lindane** applied to the soil. **Lindane** can be applied to the surface of the soil either as a dust or as a wettable powder in a convenient amount of water. Application can be made when plants are in the bed, but best results are obtained if the insecticide is worked into the soil prior to planting. Use **Lindane 25W** at the rate of 6 ounces per 1000 sq. ft. or 1% **Lindane** dust at the rate of 10 pounds per 1000 sq. ft.

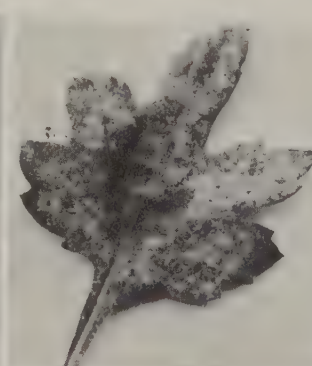
Sowbugs

INJURY. Sowbugs often become so plentiful in the greenhouse that they eat the newly-planted cuttings at the base.

CONTROL. Any of the many poison baits will give partial control, but a complete spraying with **DDT** under the benches has given excellent control. **Deenate 50W** will give complete control.



Mite Injury



Red Spider Injury



Symphylid. Above, adult —
below, eggs and young

Insects and Their Control

Tarnished Plant Bugs

The tarnished plant bug or sting fly comes into the greenhouse through open doors and ventilators in late summer or early fall and does considerable harm to this crop. Chrysanthemums growing in the open are frequently affected. Varieties such as Mary L. Hall and Sea Gull are attacked to a greater extent than other varieties.

INJURY. It has sucking mouth parts and obtains its food by inserting its long, slender beak into the plant tissues and sucking up the contents of the injured cells, apparently injecting saliva, which causes the death of the tissue in the immediate vicinity. The stem is often slightly bent, and the terminal growth is malformed because of this injection.

CONTROL. Early morning spraying or dusting with any of the pyrethrum materials will kill those bugs that are present but this will have to be done each day for complete eradication. **Deenate 50W** has been giving fair control, but again this insecticide is best used as a contact. **Parathion** fumigation will control this insect in the greenhouse.

Termites

Termites are not ants, though often called white ants. The food of termites is wood or cellulose. Soil inhabiting forms are the most common in the greenhouse.

INJURY. Termites sometimes injure chrysanthemum plants by working up the center of the plant and

hollowing out the stem. This injury will eventually kill the plant.

CONTROL. Clean up all wood debris in soil. Replace old wooden benches. Keep wooden bench supports from direct contact with the ground.

Thrips

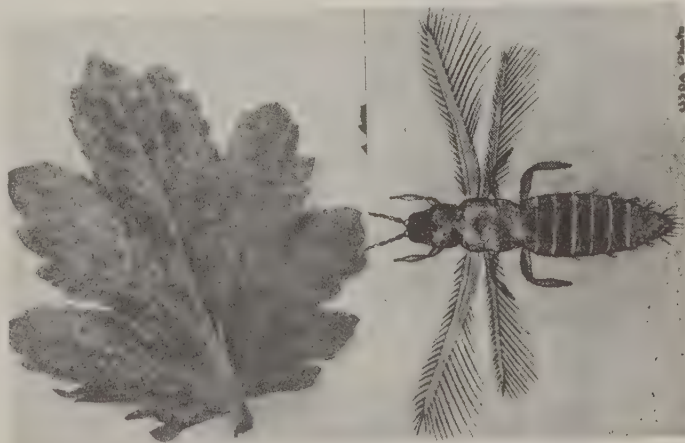
The chrysanthemum is usually attacked by one or more species of thrips. These small, narrow-bodied, active insects which range in color from yellow to brown or almost black, injure both the leaves and the blossoms. Thrips are a real threat to Florida mum growers.

INJURY. Thrips have mouth parts that are fitted for piercing and scraping the leaf surface and for sucking the juices and other cell contents. The upper surface of the foliage is covered with whitish blotches, while minute black specks appear on the lower surface. Unless a constant watch is kept on the plants and control measures are properly executed, thrips are capable of causing severe injury within a short time.

CONTROL. **Deenate 50W** used at the rate of 1 pound to 100 gallons of water is a very effective control. Other insecticides containing **Lindane** are also recommended. **Parathion** will control the chrysanthemum and onion thrips. Regular dustings or spraying are necessary where infestation is heavy. **Chlordane** is also very effective.



Tarnished Plant Bug



Thrip Injury

Adult Onion Thrip

Pests and Their Control

Foliar Nematode

The spread of this pest has been very rapid in recent years owing to the increased trade in chrysanthemums and the ease with which the nematode is transported in plants and cuttings. Too few growers have become familiar with this pest, and consequently no effort has been put forth to control it.

SYMPTOMS. The leaves attacked become blotched, turn at first greenish-yellow, then brownish, later gray and finally black until the entire leaf dies and hangs down on the stem. Under conditions of high

humidity both in the open during a wet season and under glass due to excessive watering, the spread of the pest may be extremely rapid.

CONTROL. P40 applied at the rate of 3 pounds per 100 sq. ft. has given good control. Wait 2 to 4 weeks after benching before applying. It is better to apply P40 in 2 applications, 1½ pounds each time, 7 to 10 days apart. The latest findings show that foliar nematodes can be controlled with **Parathion** either as an aerosol or liquid spray. **Systox** emulsion applied as soil drench 2-4 weeks after planting is effective.

Diseases and Their Control

Bacterial Stem Rot

SYMPTOMS. Cuttings may appear healthy although infected, grow well up to 8-12 inches high when the stem becomes soft and off-colored. Pith is jelly-like or lacking in such stems. Tops of plants then turn black, exude drops of liquid, and the stem often splits. Develops at high temperatures (75-90 degrees). Often shows up after the plants are pinched.

CONTROL. Remove and burn immediately all affected plants. Wash hands thoroughly after handling plants. Steam infested soil before replanting. Avoid dips for cuttings.

Collar Rot or Stem Rot

SYMPTOMS. The area of stem just at the soil level will show dark colorings first. The entire stem will be girdled, and eventually the plant will turn yellow and die. Usually caused by the common damping-off organisms such as *Rhizoctonia*, *Fusarium* or

Pythium. More prevalent when temperature and humidity are high.

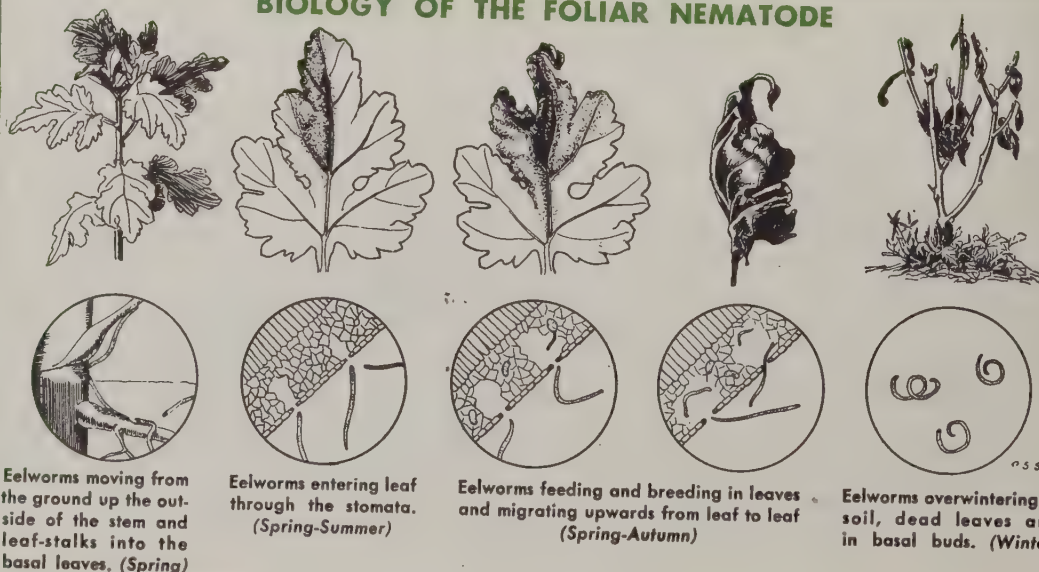
CONTROL. Do not plant cuttings that have been affected with damping-off. Remove all affected plants when noticed. Do not keep the soil too moist. Run a lower humidity if possible. Plant cuttings no deeper than depth they were in propagating media, as too deep planting will hasten development. Have soil well prepared, as compact soils will also encourage trouble.

Mildew

SYMPTOMS. Whitish powdery growth on upper surface of leaves.

CONTROL. Spray at regular weekly intervals with a good **Wettable Sulfur**, 1½ pounds per 100 gallons of water to which a good commercial spreader has been added. Spray with **Iscothan** 4 ounces per 100 gallons of water plus spreader whenever disease appears.

BIOLOGY OF THE FOLIAR NEMATODE



Diseases and Their Control

Ray Blight or Flower Spot

SYMPTOMS. The petals first show little spots and then the entire petal begins to rot. May be caused by *Botrytis* or *Ascochyta*. *Botrytis* is spread primarily by splashed water.

CONTROL. It is controlled by lowering humidity or spraying plants with **Parzate** when they show color. Spray with **Parzate** one ounce to 4 gallons of water plus one-third teaspoonful of **Du Pont Spreader Sticker** on the flower from below and above as soon as color shows and continue at 5-day intervals. **Orthocide 50W** one ounce to 4 gallons of water plus spreader used as a spray similar to **Parzate** was found a good control. An electric fan, placed above the plants will circulate the air sufficiently to reduce disease.

Root Knot Nematode

SYMPTOMS. The nematodes or eelworms bore into the roots of the plants and cause knots or galls to develop on the root systems. As a result the plants are weak, yellowish and stunted in growth.

CONTROL. Steam sterilization of the soil is very effective in eliminating the nematodes. **Dowfume G** is a good soil fumigation that will kill nematodes and not do any damage to the surrounding plants.

Rust

SYMPTOMS. Chocolate brown powdery pustules on lower surface of the leaves.



Dodder Growing on Mums

CONTROL. **Parzate**, one ounce to 4 gallons of water is most effective.

Septoria Leaf Spot or Leaf Blight

SYMPTOMS. Distinct circular spot on the leaves. These are greyish-brown in color and become brittle in the center. Affected leaves may turn yellow and die. More prevalent in the open. Some varieties are more susceptible than others. Sea Gull is very susceptible.

CONTROL. When cuttings are received, dunk the tops into **Fermate** (2 tablespoonfuls to a gallon). Spray the plants with **Parzate** one ounce to 4 gallons of water plus one-third teaspoonful of **Du Pont Spreader Sticker** every 10 to 14 days. Cloth house mums should be kept covered until the buds can be seen.

Verticillium Wilt or Seidewitz Disease

SYMPTOMS. Margins of leaves turn yellow and eventually wilt or dry up. This begins at base of plant and works up the stem. May affect one side of a stem or plant more than the other. No distinct spots. Varieties vary in resistance to this disease.

CONTROL. Verticillium wilt can be avoided by purchasing our disease-free cuttings produced from **cultured stock**. It is also necessary to plant only into sterilized soil.



Septoria Leaf Spot

Pests and Their Control

Viruses

The word "virus" is being referred to by the medical profession as well as by the florists, and a short explanation of virus should prove of interest.

Viruses of the chrysanthemum are considered to be infectious; that is they can be transmitted to a healthy plant only by contact with an infected plant. They are not carried in the soil, water or air as are other diseases caused by fungi and bacteria.

The virus particles cannot be seen by the most powerful microscopes. Most of them will pass through bacterial filters. They respond like living organisms. They are always present in the sap of diseased plants and can be transmitted to a healthy plant through wounds or by mechanical means. The chrysanthemum is known to be affected with 5 viruses, namely yellows, Aspermy, rosette, mosaic and stunt. Stunt is the only one that has caused much concern. It has been found that aphids as well as mechanical handling will cause stunt to spread.

Once a plant is infected with a virus, it usually always remains affected. To define a virus, the following is as good as any: A virus is a protein which requires the presence of living cells for multiplication and it causes changes in the structure and functions of living cells.

Combination Sprays

At times it is more economical and convenient to mix two or more sprays and apply them in one operation. Before such mixtures are prepared, the grower should be sure no reaction harmful to the plants will occur, and that the efficiency of the separate ingredients is not reduced. Consult your State Entomologist or Plant Pathologist for information on combination sprays for specific crops.

A good combination spray for chrysanthemums which will control most diseases and insect pests, can be made with Parzate, DDT and Vapotone. Details on dilutions are as follows:

Material	Amount to Make		
	100 gallons	20 gallons	3 gallons
Water			
DuPont Spreader Sticker	6 oz.	2 tablesp.	1 teasp.
Parzate	1½ lbs.	5 ounces	2 tablesp.
Deenate 50W	1 lb.	¼ lb.	1½ tablesp.
*Vapotone	½ pt.	3½ tablesp.	1½ teasp.

To prepare: (1) Measure out spreader and dilute in small amount of water. (2) Fill tank with required water and add the diluted spreader and stir. (3) Take out a small amount in jar, add the proper amount of the Parzate and shake vigorously until all the powder is thoroughly wetted. (4) Pour this mixture back into the tank, preferably through a fine screen or cheesecloth and stir. (5) Measure out Vapotone and dilute in small amount of water and add to the tank. Keep stirring or keep agitator running while adding the materials.

Dodder

SYMPTOMS. Dodder is a parasitic twiner, bearing clusters of small flowers. They are leafless annuals, with very slender yellow, white or red stems, which become attached to the plant by means of root-like suckers. Dodder is occasionally found on chrysanthemums and will cause a complete loss of crop.

*Parathion, 15% wettable powder may be substituted for Vapotone and used at the same rate as Parzate, 1½ pounds per 100 gallons; 5 ounces per 20 gallons and 2 tablespoonsful per 3 gallons.

CONTROL. Dodder is common in low, weedy places and may be carried into the greenhouse in the soil or manure. Soil sterilization is the only prevention. After dodder is attached to the plants, remove the affected plants and burn.



Stunt in Variety Harvester

Gloeckner Chrysanthemum Manual

New Chrysanthemum Varieties

WHITE POMPONS, DECORATIVES, SINGLES & ANEMONES

MARSHMALLOW

Oct. 5

Heavily petalled pure white daisy. Improves the growth and durability of Chris. Columbus. Recommended as a garden variety and Mother's Day pot plant. Dwarf, compact plant.

SILVERTONE

Oct. 24

Intermediate white daisy. Similar in habit to Reward and Buckskin. August and September cloth house and May through October in the greenhouse.

SILVER CLOUD

Nov. 1

Intermediate white single. Heavily petalled, better form than Halo. A good producer. Recommended April through October with use restricted to the greenhouse.

FREEDOM

Nov. 5

Intermediate pure white single. Outstanding for spray formation and flower substance. Clean vigorous growth; improves Halo in all respects. Recommended for August and September cloth house, and May through November in the greenhouse. Excellent shipping and keeping qualities.

WHITETOP

Nov. 5

Intermediate pure white decorative. Vigorous growth habit.

Recommended April through November in the greenhouse and August through October in the cloth house; also as a medium-sized disbud for pots. It fills the need for a pure white pompon in the greenhouse during the spring months when Encore is difficult to flower.

PACESETTER

Nov. 10

Intermediate pure white single. Good form, petallage and substance. Excellent shipping quality. Growth is short and strong. Excellent for spring, summer and fall. A very fine pot plant disbud.

ILLINI STARLET

Dec. 10

Intermediate white anemone. Improves Garza in form, growth and clarity of color. Good production and much freer growth. Believe this is a white anemone that could replace Garza.

TRENTON

Dec. 15

White pompon. Good form and substance plus production. An important pompon for natural flowering.

TALMEDA

Jan. 5

Intermediate white pompon. Improves Revelation. Just about latest white pompon. Good form and substance.

YELLOW POMPONS, DECORATIVES, SINGLES & ANEMONES

LEE POWELL

Oct. 10

Large golden yellow decorative. Vigorous plant. Showy. Fine for disbudding. Outstanding garden variety. Promising for outdoor cut flower and spring pot plant.

ARLORA

Oct. 15

Large, soft yellow, closely incurved flower. Very good substance; Flower 3" — 3½" in diameter. Should prove good spring and fall pot plant.

CREAMPUFF

Oct. 20

Intermediate cream white single. Strong fast growth and very heavy production. A beautiful new color for April through June. Excellent in the late September and October cloth house.

ORDALIA

Oct. 25

Deep golden yellow, semi-incurved decorative. Size 3" — 3½". Excellent keeper. Very vigorous and bushy growth. Blooms in the garden in October. A large pot plant disbud.

STARLIGHT

Oct. 25

Large yellow daisy. Improves the growth and production of Starbright. Very durable; uniform response. A 9-week Yellow Valencia. Recommended April through October in the greenhouse. Natural or disspray. Makes a fine disbud in pots spring and fall.

AZTEC

Oct. 28

Intermediate deep yellow daisy. Strong wiry growth and heavy production. Especially valuable for high temperature flowering. Recommended May through October in greenhouse and,

August and September in cloth house. Greatly improves existing 9-week yellow daisy varieties in production and flower quality.

SAUTERNE

Oct. 30

Intermediate intense yellow single. Very uniform response tolerating a wide temperature range. Improves the production, petallage and quality of Yellow Halo and other existing yellow daisy varieties. Recommended May through October in the greenhouse, August through October in the cloth house.

GONDOLA

Oct. 30

Intermediate yellow daisy. Outstanding form and color. Quite large flower similar to Starbright. Recommended May through October in the greenhouse and in the cloth house. Very durable with fine petallage and substance.

HONEYMOON

Nov. 4

Large yellow daisy. Good form and an unusually clear yellow color. Recommended May and June in the greenhouse, and August and September in the cloth house.

YELLOW PARAMOUNT

Nov. 23

Deep yellow sport from Paramount. Same habit as original variety.

YELLOW FORTUNE

Dec. 1

Deep yellow sport from Fortune. Same habit as original variety.

YELLOW SNOWCAP

Dec. 15

Deep lemon yellow sport from Snowcap. Same habit as original variety.

New Chrysanthemum Varieties (cont'd)

BRONZE & RED POMPONS, DECORATIVES, SINGLES & ANEMONES

BUCKEYE

Oct. 3

Intermediate salmon bronze pompon. Dwarf, compact, very sturdy growth. Striking new color well suited to the garden and Mother's Day pot plant program.

MOONMAID

Oct. 14

Intermediate salmon bronze pompon. A new and useful color with good growth and production. Late garden variety or outdoor cut flower. Recommended for spring and fall flowering.

TALISMAN

Oct. 20

Talisman bronze; intermediate daisy. Color holds exceptionally well. Recommended April through October in the greenhouse and August and September cloth house.

PARADISE

Oct. 20

Intermediate coral red single. Color holds well. Recommended April through mid June in the greenhouse, mid August through October in the cloth house. A tall variety of outstanding new color.

PALETTE

Oct. 20

Intermediate dark salmon single. Heavy petallage with good substance. Fine in spring and fall. A new pastel shade.

GAILEY

Oct. 25

Intermediate coral bronze single. This variety in combination with Paradise and Prelude constitute a trio bred to widen color range adding new and lively pastels especially valuable in the spring. Good growth and production. An exciting new color.

HILARITY

Nov. 1

Intermediate golden bronze single. Small daisy of wide petal and very lively color. Tolerates a wide range of conditions. Recommended May through October. Growth habit lends itself to pot culture.

FLAME GLOW

Nov. 5

Intermediate golden orange single. Fine growth and production.

ORANGE BEAUREGARD

Nov. 5

Lively, light orange or golden bronze sport from Beauregard. Valuable in a continuous year 'round program. In the early cloth house or under high temperature conditions it is a deep golden yellow pompon. Growth habit and response is same as that of Beauregard.

RED KING

Nov. 13

Intermediate Red Daisy. Good growth and production; short, compact plant with compound spray. A good red pot plant variety.

CADET

Nov. 14

Intermediate red anemone. Short, compact and free breaking. Approximate size of Gypsy. Recommended as a spray but useful as a disbud. Season is October through March, especially effective at Thanksgiving and Christmas. A pot plant variety.

ILLINI REDWOOD

Nov. 25

Intermediate red pompon. Hard, durable, well formed flower. Fine red pompon for Thanksgiving.

PINK POMPONS, DECORATIVES, SINGLES & ANEMONES

PETRISIAN MAUVE

PETRISIAN PINK

PETRISIAN ROSE

Oct. 5

These are three outstanding hybrids for the garden and spring pot plants.

SONNET

Oct. 14

Intermediate salmon pink pompon. Stocky compact growth; well adapted to the garden and a good spring pot plant. Valuable color in late September cloth house.

BETTY

Oct. 14

Intermediate light salmon pink decorative. Upright cut flower growth; suitable for gardens. Well known for outstanding color.

FAIRYLAND

Oct. 15

Intermediate decorative; lively pink color. Very uniform response. A low temperature variety that improves Carolyn Yosick; also a spring and fall pot plant. Recommended in early cloth house and as a garden variety.

MAYFAIR

Oct. 15

Intermediate, smooth pink single. Growth and production surpasses that of Reward. Uniform flowering response. Valuable for cut April through October in the greenhouse and, July through October in the cloth house. A much needed color in a cloth house daisy.

JESTER

Oct. 15

Intermediate, dark, orchid pink single. Very early variety with free vigorous growth.

CITATION

Oct. 15

Intermediate pink pompon. Dwarf, compact but very sturdy growth. In color and growth it improves Queen of Pinks. A pot plant disbud. Recommended April through June and again in October. One of the best late garden varieties.

MIRTH

Oct. 20

Intermediate light pink single. Larger than Reward. Especially valuable in spring flowering April through June. Durable and uniform response in July through October in the cloth house.

New Chrysanthemum Varieties

PINK POMPONS, DECORATIVES, SINGLES & ANEMONES—Cont'd.

PRELUDE

Oct. 24

Intermediate coral pink single. Clean growth habit. A beautiful pastel color, extremely effective under artificial light. Recommended flowering period April through June, and mid September through October cloth house and greenhouse.

PINKETTE

Oct. 25

Intermediate pink pompon. A bread and butter variety to grow with Keepsake and Gold Coast. Recommended for May and June, and again in September and October in the greenhouse; also, August through October in the cloth house.

VOGUE

Oct. 25

Large pink single. Beautiful form and substance. Especially valuable June and July. Rigid growth habit. Improves Ballerina and Soprano. Good in August-September cloth house.

BLUE CHIP

Nov. 1

Intermediate pink decorative. Vigorous growth and heavy production; very pleasing color. Recommended May and June in the greenhouse, and August through October in the cloth house. Also a good spring pot plant disbud.

LOTUS

Nov. 3

Intermediate pink pompon. Mary McArthur growth; a high quality flower for the shading program.

TEMPO

Nov. 3

Intermediate deep pink decorative. A 9-week Masterpiece. Rigid stem; very hard, durable flower. Recommended April through June in the greenhouse, and August and September in the cloth house.

PORTRAIT

Nov. 8

Large pink pompon. Very heavy producer of beautiful high quality flowers. Growth is strong, compact with excellent sprays. A versatile variety that can be grown anytime 10-week varieties are used. Also responds well to partial disbudding. Tolerates a lower minimum temperature than Pandora. Excellent pot plant March through December.

PENNANT

Nov. 10

Intermediate pink decorative. A dark pink Masterpiece; fine form and substance. Tolerates low temperature well. Vigorous growth. Recommended April through October in the greenhouse, and August through October in the cloth house.

COVER GIRL

No. 10

Light pink anemone with salmon pink cushion. Good color and form. Short, compact growth with good production. For cut flower and pot plant use.

NOBILITY

Nov. 10

Intermediate light pink single. Very flat form. Medium to tall with free, easy growth. A quality daisy. Recommended May, June, October and November in the greenhouse, and August through October in cloth house.

CAROLE

Nov. 15

Light pink anemone with salmon pink cushion. Resembles Majorette. Definitely smoother color plus more substance.

POLKA

Nov. 20

Intermediate pink anemone. Essentially a pot plant; equally valuable as a spray or disbud. Beautiful form and color. Compact growth. Recommended October through June.

Nugano

Nov. 20

Intermediate pompon. Excellent growth and production. A high quality flower. One of the most important pink pompoms for this season.

DARK PINK MAJORETTE

Nov. 20

Dark sport of Majorette. Lively, intense color. Same habit as original variety.

ILLINI FORMAL

Nov. 23

Intermediate rose pink pompon. Fine growth and production. Excellent substance. Flowers for Thanksgiving. Very novel form that should be popular.

PINK CLOUD

Nov. 25

Light pink decorative. Greenish overcast until mature; very fine form and substance.

ARGYLE

Dec. 10

Small pink pompon. Fine clean growth; hard flower plus very acceptable pink shade. An outstanding late pink pompon.

YELLOW STANDARD

DK. YEL. CHATTANOOGA

Nov. 25

Deep yellow sport from Chattanooga. Same habit as original variety.

Gloeckner Chrysanthemum Manual

WHITE POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
6-WEEK VARIETIES				
Sept. Morn (G).....	July 5	Oct. 1	Int. Single	S-1
White Wonder.....		Oct. 1	Int. Pompon	S-2
Chris. Columbus (G).....		Oct. 1	Int. Decorative	S-1
7-WEEK VARIETIES				
Avalanche (G).....	July 5	Oct. 5	Snow White Decorative	S-2
White Cloud (G).....		Oct. 5	Large Decorative	S-1
Horizon.....		Oct. 5	Pure White; Int. Pompon	P-3
Marshmallow.....		Oct. 5	Int. Single	P-1
Maestro (G).....		Oct. 10	Int. Pompon	S-1
Renown (G).....		Oct. 10	Small Single	S-1
Classic.....		Oct. 10	Small Semi-Formal Pompon	S-1
Silverplate.....		Oct. 12	Int. Decorative	S-1
8-WEEK VARIETIES				
Calif. White Daisy..... (Kimoto's White)	July 12	Oct. 15	Int. Single	S-1
Irene.....		Oct. 15	Small Pompon	S-2
Norona.....		Oct. 15	Small Pompon	P-3
Pristine.....		Oct. 20	Pure White; Int. Pompon	S-1
Minong.....		Oct. 20	Small Pompon	S-3
Silvertone.....		Oct. 24	Int. Single	P-1
9-WEEK VARIETIES				
Popcorn.....	July 19	Oct. 25	Int. Pompon	S-2
White Popcorn.....		Oct. 25	Cream White Sport of Popcorn	P-3
Keepsake.....		Oct. 25	Cream White; Int. Pompon	P-3
Pinocchio.....		Oct. 25	Small Pompon	S-3
Songster.....		Oct. 25	Int. Pompon	S-1
Cottontop.....		Oct. 25	Small Pompon	S-2
Shooting Star.....		Oct. 25	Int. Single	P-3
Arcadia.....		Oct. 28	Int. Pompon	S-2
Silver Cloud.....		Nov. 1	Int. Single	P-1
Halo.....		Nov. 1	Ivory White; Int. Single	S-1
Sea Gull.....		Nov. 1	Ivory White; Int. Pompon	S-3
*White Doty.....		Nov. 1	Large Pompon	S-2
10-WEEK VARIETIES				
Freedom.....	July 26	Nov. 5	Int. Single	P-1
Whitetop.....		Nov. 5	Int. Decorative	P-1
Madonna.....		Nov. 5	Int. Pompon	P-3
Kolowa.....		Nov. 5	Int. Single	S-1
Encore.....		Nov. 5	Pure White; Int. Pompon	S-2
*White Anemone.....		Nov. 5	Large Anemone	S-1
White Mensa.....		Nov. 5	Large Single	S-2
Rev. Bushnell.....		Nov. 8	Int. Formal Pompon	S-1
Moonglow.....		Nov. 8	Int. Pompon	S-1
Pacesetter.....		Nov. 10	Int. Single	P-1
Illini Igloo.....		Nov. 10	Int. Pompon	P-2
*Shasta.....		Nov. 10	Int. Anemone	S-3
Dynamo.....		Nov. 10	Int. Pompon	P-3

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

WHITE POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
10-WEEK VARIETIES—Cont'd				
Vesper.....	July 26	Nov. 10	Int. Pompon	S-2
Nagona.....		Nov. 10	Int. Single	S-1
(Calif. White Mensa)				
*Little America.....		Nov. 10	Pure White; Int. Anemone	S-3
Illini Snowdrift.....		Nov. 12	Novelty — Int. Decorative	S-1
Matchless.....		Nov. 12	Int. Pompon	S-2
11-WEEK VARIETIES				
Sculpture.....	Aug. 2	Nov. 15	Ivory White — L. Single	P-3
*White Norma.....		Nov. 15	Sport of Norma	S-1
Eskimo.....		Nov. 15	Int. Single	P-3
Lakme.....		Nov. 15	Green Eye; Small Pompon	S-1
Snowflurry.....		Nov. 15	Small Pompon	S-1
Seafoam.....		Nov. 20	Int. Pompon	S-2
*L. I. Beauty.....		Nov. 20	Yellow Cushion; L. Anemone	S-3
Highbrow.....		Nov. 20	Ivory White; Int. Dec.	S-1
Nevada.....		Nov. 20	Green Cushion; Int. Anemone	S-2
*Priscilla.....		Nov. 20	Int. Pompon	S-3
Illini Bountiful.....		Nov. 23	Int. Decorative	S-1
Crystal Beauty.....		Nov. 23	Int. Pompon	S-1
Paramount.....		Nov. 23	Int. Pompon	S-1
*Belray.....		Nov. 24	Large Pompon	S-1
12-WEEK VARIETIES				
*White Lady.....	Aug. 9	Nov. 25	Sport of Beautiful Lady	P-2
*White Valencia.....		Nov. 28	Sport of Valencia	S-1
Cordova.....		Nov. 30	Cream White; Int. Dec.	S-2
Fortune.....		Dec. 1	Int. Formal Pompon	S-1
Monarch.....		Dec. 1	Ivory White; L. Decorative	P-3
13-WEEK VARIETIES				
Cameo.....	Aug. 16	Dec. 5	Ivory White; Int. Dec.	S-3
Acclaim.....		Dec. 5	Large Formal Pompon	P-3
*Swan.....		Dec. 5	Large Anemone	S-1
Spangles.....		Dec. 5	Int. Pompon	S-1
Cotillion.....		Dec. 5	Int. Semi-Formal Pompon	P-3
Snowdrop.....		Dec. 8	Small Pompon	P-3
Carrara.....		Dec. 8	Int. Decorative	P-2
Illini Starlet.....		Dec. 10	Int. Anemone	P-1
*Imp. White Supreme.....		Dec. 10	Large Anemone	S-1
Snow Queen.....		Dec. 10	Int. Formal Pompon	P-3
Yukon.....		Dec. 10	Int. Single	S-3
14-WEEK VARIETIES				
Trenton.....	Aug. 23	Dec. 15	Int. Pompon	P-1
Snowcrest.....		Dec. 15	Green Eye; Small Pompon	S-2
Silversmith.....		Dec. 15	Int. Decorative	S-2
Snowcap.....		Dec. 15	Large Formal Pompon	S-2
Garza.....		Dec. 15	Int. Anemone	S-2
Satellite.....		Dec. 15	Ivory White; Int. Formal Pompon	P-3
Heirloom.....		Dec. 20	Int. Decorative	S-1

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloectner Chrysanthemum Manual

WHITE POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
15-WEEK VARIETIES				
Revelation.....	Aug. 30	Dec. 25	Int. Decorative	S-3
Snow.....		Dec. 25	Int. Pompon	S-3
Talmeda.....		Jan. 5	Int. Pompon	P-1
Illini Snowbound.....		Jan. 5	Int. Decorative	P-1

YELLOW POMPONS, DECORATIVES, SINGLES AND ANEMONES

6-WEEK VARIETIES				
Yel. Chris. Columbus (G).....	July 5	Oct. 1	Sport of Chris. Columbus	S-1
Moonlight (G).....		Oct. 1	Int. Decorative	P-2
Honeycomb (G).....		Oct. 1	Small Pompon	S-2

7-WEEK VARIETIES				
Polaris.....	July 5	Oct. 5	Int. Single	S-1
Chas. Nye.....		Oct. 5	Int. Decorative	S-2
Garland (G).....		Oct. 5	Int. Single	P-3
Yellow Spoon (G).....		Oct. 5	Int. Spoon	S-1
Lee Powell.....		Oct. 10	Large Decorative	P-2
Goldrush.....		Oct. 10	Small Single	S-1
Treasure.....		Oct. 10	Small Pompon	P-3
Bright Forecast.....		Oct. 10	Small Formal Pompon	S-1
Lemonade.....		Oct. 12	Ivory Yellow Int. Dec.	S-1
Sweepstake.....		Oct. 12	Small Pompon	S-1

8-WEEK VARIETIES				
Arlora.....	July 12	Oct. 15	Large Pompon	P-1
Creampuff.....		Oct. 20	Int. Single	P-1
Moondrift.....		Oct. 20	Int. Ivory Yel. Single	P-2

9-WEEK VARIETIES				
Ordalia.....	July 19	Oct. 25	Large Decorative	P-1
Starlight.....		Oct. 25	Large Single	P-1
*Golden Herald.....		Oct. 25	Golden Yellow; L. Dec.	S-3
Gold Coast.....		Oct. 25	Int. Pompon	S-3
Yellow Dot.....		Oct. 25	Int. Pompon	S-3
Cream Dot.....		Oct. 25	Int. Pompon	S-3
Aztec.....		Oct. 28	Int. Single	P-1
Sunup.....		Oct. 28	Small Pompon	P-3
Yellow Arcadia.....		Oct. 28	Sport of Arcadia	S-2
Sauterne.....		Oct. 30	Int. Single	P-1
Gondola.....		Oct. 30	Int. Single	P-1
Mary L. Hall.....		Nov. 1	Deep Yellow; Int. Pompon	S-3
Yellow Halo.....		Nov. 1	Sport of Halo	P-2
Schn. Yel. Daisy.....		Nov. 1	Int. Single	S-1
*Yellow Doty.....		Nov. 1	Buff Yellow; Large Pompon	S-2
Starbright.....		Nov. 1	Deep Yellow; L. Single	S-1
Yellow Daisy.....		Nov. 1	Int. Single	S-2
Yellow Sea Gull.....		Nov. 1	Light Yel. Sport of Sea Gull	S-3
Yellow Cassandra.....		Nov. 1	Sport of Cassandra	S-1
Sunray.....		Nov. 3	Int. Single; S. Anemone Center	S-3
Honeymoon.....		Nov. 4	Large Single	P-1

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

YELLOW POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
10-WEEK VARIETIES				
Barcarole.....	July 26	Nov. 5	Int. Pompon	S-2
Brigadoon.....		Nov. 5	Int. Single	P-3
Crescendo.....		Nov. 5	Large Pompon	S-1
Constellation.....		Nov. 5	Int. Decorative	S-3
Pixie.....		Nov. 5	Small Pompon	S-2
Nuggets.....		Nov. 5	Small Pompon	S-3
Golden Mensa.....		Nov. 5	Sport of White Mensa	S-2
*Yellow Shasta.....		Nov. 10	Sport of Shasta	S-3
Mason's Yellow.....		Nov. 10	Large Single	S-1
Yellow Nagona..... (Calif. Yellow Mensa)		Nov. 10	Int. Single	S-1
11-WEEK VARIETIES				
Princeton.....	Aug. 2	Nov. 15	Int. Decorative	S-2
Thorobred.....		Nov. 15	Large Single	P-3
Golden Chord.....		Nov. 15	Golden Yellow; Int. Pompon	S-2
Forty-Niner.....		Nov. 15	Int. Formal Pompon	S-2
Yellow Fellow.....		Nov. 15	Int. Decorative	S-2
*Susanne Miller.....		Nov. 15	Large Anemone	S-1
Tacoma.....		Nov. 15	Large Pompon	P-2
Illini Brave.....		Nov. 16	Small Pompon	S-1
*Yellow L. I. Beauty.....		Nov. 20	Sport of L. I. Beauty	S-1
Yellow Highbrow.....		Nov. 20	Sport of Highbrow	P-2
Lollipop.....		Nov. 20	Int. Pompon	S-1
Pippin.....		Nov. 20	Int. Pompon	P-3
Klondike.....		Nov. 20	Orange Yel.; Int. Pompon	S-1
Bojangles.....		Nov. 20	Int. Single	S-1
Yellow Nevada.....		Nov. 20	Sport of Nevada	S-2
Illini Sunspot.....		Nov. 20	Large Pompon	P-2
Yellow Paramount.....		Nov. 23	Sport of Paramount	P-1
12-WEEK VARIETIES				
Goldenrod.....	Aug. 9	Nov. 25	Int. Pompon	P-3
Illini Gold.....		Nov. 25	Deep Golden Yel. Int. Pompon	S-2
*Goldsmith.....		Nov. 25	Large Decorative	S-2
Highlander.....		Nov. 25	Int. Formal Decorative	P-3
Sunnyside.....		Nov. 25	Int. Pompon	S-3
Champagne.....		Nov. 25	Int. Single	S-1
*Yellow Valencia.....		Nov. 28	Sport of Valencia	S-2
Yellow Cordova.....		Nov. 30	Sport of Cordova	S-2
Yellow Fortune.....		Dec. 1	Deep Yellow Sport of Fortune	P-1
Omega.....		Dec. 1	Int. Pompon	S-3
Nosegay.....		Dec. 1	Small Pompon	P-3
Yellow Galaxy.....		Dec. 1	Sport of Galaxy	P-2
13-WEEK VARIETIES				
Golden Harvest.....	Aug. 16	Dec. 5	Deep Gold; Small Pompon	S-1
Brandywine.....		Dec. 5	Orange Yellow; Int. Dec.	P-3
Jack-Pot.....		Dec. 5	Golden Yellow; L. Dec.	P-3
Symmetry.....		Dec. 5	Int. Pompon	P-3
*Yellow Swan.....		Dec. 5	Sport of Swan	S-1

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Glaeckner Chrysanthemum Manual

YELLOW POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
13-WEEK VARIETIES—Cont'd				
Yellow Cameo.....	Aug. 16	Dec. 5	Sport of Cameo	S-3
Yellow Spangles.....		Dec. 5	Sport of Spangles	P-2
Cinderella.....		Dec. 5	Int. Single	S-1
Goldtone.....		Dec. 5	Int. Single	S-1
*Imp. Yel. Supreme.....		Dec. 10	Large Anemone	S-1
Challenge.....		Dec. 10	Int. Single	S-1
Corsair.....		Dec. 10	Large Semi-Formal Pompon	P-3
14-WEEK VARIETIES				
Yellow Snowcap.....	Aug. 23	Dec. 15	Deep Lemon; Sport of Snowcap	P-1
Yellow Riviera.....		Dec. 15	Golden Yel.; Sport of Riviera	S-1
Cream Snowcrest.....		Dec. 15	Sport of Snowcrest	P-2
Yellow Snowcrest.....		Dec. 15	Sport of Snowcrest	P-3
Yellow Garza.....		Dec. 15	Sport of Garza	S-2
Sequin.....		Dec. 15	Small Pompon	S-1
Shamrock.....		Dec. 15	Large Decorative	S-1
December Gold.....		Dec. 15	Golden Yel.; Int. Decorative	S-2
Sunkist.....		Dec. 20	Int. Single	S-1
*Vibrant.....		Dec. 20	Int. Decorative	S-3
Revelry.....		Dec. 20	Int. Decorative	P-3
Gold Seal.....		Dec. 20	Int. Single	P-2
Sunrise.....		Dec. 20	Int. Pompon	P-3
Golden Anniversary.....		Dec. 25	Small Pompon	S-1
15-WEEK VARIETIES				
Siren.....	Aug. 30	Dec. 25	Int. Decorative	S-1
Yuleflame.....		Dec. 25	Large Decorative	S-1
Yellow Snow.....		Dec. 25	Sport of Snow	S-3
Ill. Yel. Snowbound.....		Jan. 5	Sport of Ill. Snowbound	P-2

BRONZE AND RED POMPONS, DECORATIVES, SINGLES AND ANEMONES

6-WEEK VARIETIES				
W. P. Snyder (G).....	July 5	Oct. 1	Coral Bronze; Int. Decorative	S-1
Marionette.....		Oct. 1	Rust Red; Small Pompon	S-1
Mogul.....		Oct. 1	Raspberry Bronze; Small Dec.	P-2
Bonfire.....		Oct. 1	Red Pompon	S-1
7-WEEK VARIETIES				
Avalon (G).....	July 5	Oct. 5	Light Bronze; Small Pompon	P-2
Mona (G).....		Oct. 5	Small Pompon	S-1
Huntsman.....		Oct. 5	Reddish Bronze; Large Dec.	S-1
Firecracker.....		Oct. 5	Mahogany Bronze; Int. Dec.	P-3
Buckeye.....		Oct. 8	Int. Salmon Bronze Pompon	P-1
Panorama.....		Oct. 8	Orange Bronze; Small Pompon	P-2
Red Velvet (G).....		Oct. 10	Velvety Crimson; Int. Dec.	S-2
Bamboo.....		Oct. 10	Buff Bronze; Small Single	S-1
Blueblood.....		Oct. 10	Deep Amaranth; Int. Dec.	P-3
Calico.....		Oct. 10	Coral Bronze; Small Single	S-1
Caravan (G).....		Oct. 10	Salmon Bronze; Int. Dec.	P-2

(G) Recommended for Garden Culture.

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

BRONZE AND RED POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
7-WEEK VARIETIES—Cont'd				
Carmine Queen	July 5	Oct. 10	Carmine Red; Small Pompon	S-1
Carnival		Oct. 10	Burnt-Orange; Small Pompon	S-1
Fireside		Oct. 10	Burnt-Orange; Salmon; Int. Dec.	S-1
Nokomis (G)		Oct. 12	Bronze; Int. Dec.	S-1
Nocturne		Oct. 12	Crimson; Small Pompon	S-1
Nytoda		Oct. 12	Apricot Buff; Int. Single	P-2
Carmelita		Oct. 12	Orange Apricot; Int. Dec.	S-1
Witchery		Oct. 12	Golden Bronze; Int. Dec.	S-1
Mrs. Du Pont (G)		Oct. 12	Coral Buff; Large Decorative	S-1
Admiral (G)		Oct. 12	Crimson; Int. Decorative	P-3
Moonmaid		Oct. 14	Salmon Bronze; Int. Pompon	P-1

8-WEEK VARIETIES				
Robinhue	July 12	Oct. 15	Red; Int. Decorative	S-1
Red Glow		Oct. 15	Crimson Red; Int. Decorative	S-1
Cocktail		Oct. 15	Salmon Orange; Int. Pompon	P-3
Rajah		Oct. 15	Scarlet Red; Int. Single	P-3
Detroit		Oct. 15	Reddish Bronze; Small Pompon	S-1
James Stewart		Oct. 15	Apricot Gold; Small Pompon	S-1
Talisman		Oct. 20	Talisman Bronze; Int. Single	P-1
Paradise		Oct. 20	Coral Red; Int. Single	P-1
Palette		Oct. 20	Dark Salmon; Int. Single	P-1
Br. Mary McArthur		Oct. 23	Sport of Mary McArthur	S-1

9-WEEK VARIETIES				
Gaiety	July 19	Oct. 25	Coral Bronze; Int. Single	P-1
Firebird		Oct. 25	Reddish Bronze; Int. Dec.	S-2
Bronze Dot		Oct. 25	Sport of Pink Dot	S-3
Buckskin		Oct. 25	Tawny Bronze; Small Single	S-1
Hilarity		Nov. 1	Golden Bronze; Int. Single	P-1
Seneca		Nov. 1	Orange Red; Int. Dec.	S-2
Firefly		Nov. 1	Orange Red; Int. Pompon	S-1
Bronze Daisy		Nov. 1	Light Bronze Sport of Yel. Daisy	S-2
Imp. Bronze Daisy		Nov. 1	Sport of Br. Daisy	S-1
(Katoka Red)				
Buccaneer		Nov. 1	Orange Apricot; Int. Single	P-3
Red Seneca		Nov. 1	Red Sport of Seneca	S-1
Bronze Buckingham		Nov. 1	Sport of Pk. Calif. Daisy	S-1
Navaho		Nov. 1	Red; Int. Pompon	S-2
Red Daisy		Nov. 1	Red; Int. Single	S-2
Imp. Red Daisy		Nov. 1	Sport of Red Daisy	S-1
(Adachi Red)				

10-WEEK VARIETIES				
Comanche	July 26	Nov. 2	Orange Bronze; Int. Pompon	S-1
Flame Glow		Nov. 5	Golden Orange; Int. Single	P-1
Orange Beauregard		Nov. 5	Golden Br. Sport of Beauregard	P-1
Beauregard		Nov. 5	Reddish Orange; Int. Pompon	S-1
Butterscotch		Nov. 5	Golden Bronze; Int. Pompon	S-1
Cassandra		Nov. 5	Orange Bronze; Int. Pompon	S-2
Red Rust		Nov. 5	Reddish Bronze; Int. Dec.	S-2
Rubicon		Nov. 5	Bronze Red; Int. Dec.	S-2
Magician		Nov. 5	Bronze; L. Pompon	S-1

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

BRONZE AND RED POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
10-WEEK VARIETIES—Cont'd				
Bittersweet.....		Nov. 5	Bittersweet Red; Int. Single	S-2
Samovar.....		Nov. 10	Reddish Bronze; Int. Pompon	S-1
Sylvanna.....		Nov. 10	Reddish Orange; Int. Single	S-2
Chanticleer.....		Nov. 10	Reddish Bronze; L. Pompon	S-1
*Manson's Bronze.....		Nov. 10	Burnt Orange; Large Single	S-1
*Mason's Red.....		Nov. 10	Scarlet; L. Single	S-1
Chevron.....		Nov. 10	Red Orange; Int. Dec.	S-1
*The Titan.....		Nov. 10	Red; Large Anemone	S-2
*Bronze Thyra.....		Nov. 10	Sport of Thyra	S-1
Illini Burma.....		Nov. 10	Light Bronze; L. Pompon	P-3
*Europa.....	July 26	Nov. 10	Cardinal Red; L. Single	S-1
*Copperhead.....		Nov. 10	Coppery Bronze; L. Dec.	S-1
Bronze Linda Lou.....		Nov. 10	Sport of Linda Lou	S-1
*Bronze Tuxedo.....		Nov. 10	L. Anemone; Sport of Tuxedo	S-1
Gold Braid.....		Nov. 12	Yel. Bronze-Red Center; Int. Pom.	P-3
Illini Rye.....		Nov. 12	Straw Color; Int. Pompon	P-3
*Bronze Masterpiece.....		Nov. 12	Sport of Masterpiece	S-3
*Dk. Br. Masterpiece.....		Nov. 12	Sport of Br. Masterpiece	S-2
*Paragon.....		Nov. 12	Red; L. Pompon	S-1
Illini Tangier.....		Nov. 12	Reddish Bronze; L. Decorative	P-2
Red King.....		Nov. 13	Large Red Single	P-1
Cadef.....		Nov. 14	Red; Int. Anemone	P-1

11-WEEK VARIETIES				
Mrs. Dewey.....		Nov. 15	Deep Bronze; L. Single	S-1
Shalimar.....		Nov. 15	Orange Bronze; Int. Anemone	P-3
Red Princeton.....		Nov. 15	Brazil Red; Sport of Princeton	S-2
Illini Honey.....		Nov. 15	Honey Amber, Small Pompon	S-1
Illini Redhead.....		Nov. 17	Deep Red; Small Pompon	S-1
Illini Warrior.....		Nov. 20	Bronzy Orange; Small Pompon	S-1
Legal Tender.....	Aug. 2	Nov. 20	Bronze & Gold; Int. Dec.	S-3
Rusticon.....		Nov. 20	Rust Red; Int. Pompon	S-2
Thelma.....		Nov. 20	Orange Scarlet; Int. Pompon	P-3
Bourbon.....		Nov. 20	Rust Bronze; Int. Single	S-1
Carousel.....		Nov. 23	Coral Bronze; Int. Single	S-1
Festival.....		Nov. 23	Apricot Red; Small Single	S-1
Bronze Minuet.....		Nov. 23	Sport of Minuet	S-2
*Red Rolinda.....		Nov. 23	Red; Int. Anemone	S-3

12-WEEK VARIETIES				
Illini Redwood.....		Nov. 25	Red; Int. Pompon	P-1
*Bronze Goldsmith.....		Nov. 25	Mars Orange; Int. Dec.	S-2
Wanakah.....		Nov. 25	Sport of Hasegawa Pink	P-2
Falcon.....		Nov. 25	Reddish Bronze; Int. Pompon	S-1
Yolanda.....	Aug. 9	Nov. 25	Dk. Orange Bronze; Int. Anemone	S-1
Indian Head.....		Nov. 28	Reddish Apricot; Int. Single	S-1
*Apricot Valencia.....		Nov. 28	Sport of Valencia	S-2
*Crimson Valencia.....		Nov. 28	Sport of Valencia	S-1
Amberina.....		Dec. 1	Orange Bronze; Int. Dec.	P-3
Galaxy.....		Dec. 1	Orange Scarlet; Int. Single	S-1

13-WEEK VARIETIES				
Dazzler.....		Dec. 5	Coppery Bronze; Partial Anemone	P-3
*Bronze Enchantress.....	Aug. 16	Dec. 5	Sport of Enchantress	S-2
Debonair.....		Dec. 5	Crimson Red; L. Pompon	S-2

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

BRONZE AND RED POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
13-WEEK VARIETIES—Cont'd				
Mahogany Viking.....		Dec. 5	Mahogany Bronze; Int. Single	S-1
*Imp. Bronze Supreme.....		Dec. 10	Large Anemone	S-1
*Red Supreme.....		Dec. 10	Sport of Dk. Pk. Supreme	S-1
Harlequin.....		Dec. 10	Crimson Red; Int. Decorative	P-3
Holiday.....	Aug. 16	Dec. 10	Crimson Red; Int. Single	S-1
Pageantry.....		Dec. 10	Red; Int. Pompon	S-1
Christmas Star.....		Dec. 12	Scarlet Red; Int. Single	S-2
*Bronze Minstrel.....		Dec. 13	Coral Sport of Minstrel	S-1
*Dark Bronze Minstrel.....		Dec. 13	Reddish Bronze Sport of Minstrel	P-2

14-WEEK VARIETIES				
Bronze Riviera.....		Dec. 15	Sport of Riviera	S-1
Claret.....		Dec. 15	Brilliant Red; Int. Single	P-3
Topaz.....		Dec. 15	Orange Bronze; Int. Single	P-3
*Christmas Greeting.....	Aug. 23	Dec. 15	Crimson Scarlet; Int. Dec.	S-1
Sarong.....		Dec. 15	Crimson; Int. Single	S-2
Merrymaker.....		Dec. 20	Scarlet Red; Int. Single	S-1
Poinsettia.....		Dec. 20	Scarlet Red; L. Single	P-3

PINK POMPONS, DECORATIVES, SINGLES AND ANEMONES

6-WEEK VARIETIES				
Early Wonder.....	July 5	Oct. 1	Lavender, Int. Pompon	S-2
Spellbound (G).....		Oct. 1	Int. Decorative	S-2

7-WEEK VARIETIES				
Petrisian Mauve (G).....		Oct. 5	Int. Pompon	P-0
Petrisian Pink (G).....		Oct. 5	Int. Pompon	P-0
Petrisian Rose (G).....		Oct. 5	Int. Pompon	P-0
Courtier (G).....		Oct. 10	Lavender Pink Decorative	P-3
Dream Girl.....		Oct. 10	Int. Pompon	S-1
Ponca (G).....		Oct. 10	Dk. Lavender, Small Decorative	S-1
Argonne.....		Oct. 10	Amaranthe Pompon	S-1
Lassie.....		Oct. 10	Dk. Pk.; Int. Decorative	P-3
Serenade.....		Oct. 10	Magenta Pink; Int. Single	S-1
Orchid Spoon (G).....		Oct. 10	Int. Spoon	S-1
Joybringer (G).....	July 5	Oct. 10	Salmon Rose; Int. Pompon	S-1
Brigadier.....		Oct. 10	Salmon Rose; Int. Decorative	P-2
Sweetheart.....		Oct. 10	Light Lavender; Int. Single	S-1
Allegro (G).....		Oct. 12	Small Decorative	S-2
Masquerade (G).....		Oct. 12	Small Pompon	S-1
Ronnie (G).....		Oct. 12	Dk. Lavender, Small Pompon	S-1
Salute.....		Oct. 12	Deep Pink; Small Single	S-1
Adagio.....		Oct. 12	Coppery Rose Pompon	S-1
Lavender Lady (G).....		Oct. 12	Light Lavender; Large Decorative	S-1
Sonnet (G).....		Oct. 14	Salmon Pink; Int. Pompon	P-1
Betty.....		Oct. 14	Lt. Salmon Pink; Int. Pompon	S-1

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

PINK POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
8-WEEK VARIETIES				
Fairyland.....	July 12	Oct. 15	Pink; Int. Decorative	P-1
Mayfair.....		Oct. 15	Pink; Int. Single	P-1
Jester.....		Oct. 15	Dark Orchid Pink; Int. Single	P-1
Citation.....		Oct. 15	Pink; Int. Pompon	P-1
Enterprise.....		Oct. 15	Amaranth, Int. Pompon	P-2
Eliz. Hood.....		Oct. 15	Lavender; Large Pompon	P-2
Jewell.....		Oct. 15	Lavender; Small Pompon	S-2
Carolyn Yosick.....		Oct. 20	Lavender; Small Decorative	S-3
Pink Sprite.....		Oct. 23	Small Pompon	S-1
Mary McArthur.....		Oct. 23	Small Pompon	S-1
Prelude.....		Oct. 24	Coral Pink; Int. Single	P-1
9-WEEK VARIETIES				
Pinkette.....	July 19	Oct. 25	Pink; Int. Pompon	P-1
Vogue.....		Oct. 25	Pink; Large Single	P-1
Edith Roberts.....		Oct. 25	Light Orchid Pink; Small Pompon	S-1
Reward.....		Oct. 25	Int. Single	S-1
Pink Dot.....		Oct. 25	Int. Pompon	S-3
Jessie.....		Oct. 25	Lavender; Int. Pompon	S-3
*Betty Rose.....		Oct. 25	Lavender; L. Anemone	S-1
October Pink.....		Oct. 25	Int. Single	S-2
Bluechip.....		Nov. 1	Pink; Int. Decorative	P-1
Pk. Calif. Daisy..... (W. H. Buckingham)		Nov. 1	Int. Single	S-1
Rainbow.....	July 26	Nov. 1	Coral Pink; Int. Single	P-2
Ballerina.....		Nov. 1	Int. Single	S-1
*Lillian Doty.....		Nov. 1	Rose Pink; L. Pompon	S-2
Arbutus.....		Nov. 1	Shrimp Pink; Int. Pompon	P-2
Lotus.....		Nov. 3	Pink; Int. Pompon	P-1
Tempo.....		Nov. 3	Deep Pink; Int. Decorative	P-1
10-WEEK VARIETIES				
Dreamboat.....	July 26	Nov. 5	Lavender Pink; Int. Pompon	S-2
Dark Bulkeley.....		Nov. 8	Int. Formal Pompon	S-1
Portrait.....		Nov. 8	Pink; Large Pompon	P-1
Pennant.....		Nov. 10	Pink; Int. Decorative	P-1
Cover Girl.....		Nov. 10	Light Pink; Int. Anemone	P-1
Nobility.....		Nov. 10	Light Pink; Int. Single	P-1
Pandora.....		Nov. 10	Luminous Pink; L. Dec.	P-3
*Thyra.....		Nov. 10	Int. Formal Pompon	S-3
Soprano.....		Nov. 10	Large Single	S-1
Linda Lou.....		Nov. 10	Yellow Cushion; Int. Anemone	S-3
Dark Linda Lou.....	July 26	Nov. 10	Sport of Linda Lou	S-3
*Tuxedo.....		Nov. 10	Large Anemone	S-1
*Masterpiece.....		Nov. 12	Int. Pompon	S-3
*Rose Masterpiece.....		Nov. 12	Rose Pk. Sport of Masterpiece	S-2
*Salmon Masterpiece.....		Nov. 12	Salmon Pk. Sport of Masterpiece	S-2
Memorial.....		Nov. 12	Int. Anemone	P-3
Taffeta.....		Nov. 12	Int. Decorative	S-1

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

PINK POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
11-WEEK VARIETIES				
Carole.....		Nov. 15	Lt. Pk., Salm. Cush.; Int. Anemone	P-1
*Dark Norma.....		Nov. 15	Deep Lavender; L. Anemone	S-1
Orchid Beauty.....		Nov. 15	Golden Cushion; Int. Anemone	S-2
Brocade.....		Nov. 15	Shell Pink; Int. Single	S-3
Polka.....		Nov. 20	Pink; Int. Anemone	P-1
Nugano.....		Nov. 20	Pink; Int. Pompon	P-1
Grand Slam.....		Nov. 20	Silvery Shell Pk.; L. Single	P-3
*Almega.....		Nov. 20	Lavender Pink; Large Pompon	P-2
*Vivacious Lady.....	Aug. 2	Nov. 20	Spoon Type Novelty	P-3
Evening Star.....		Nov. 20	Dk. Lavender; Int. Anemone	P-3
*Pink L. I. Beauty.....		Nov. 20	Lt. Pk. Sport of L. I. Beauty	S-1
Pinky.....		Nov. 20	Int. Decorative	S-1
*Dark L. I. Beauty.....		Nov. 20	Imp. Pink L. I. Beauty	P-2
Dark Pink Majorette.....		Nov. 20	Dark Pink Sport of Majorette	P-1
Majorette.....		Nov. 20	Int. Anemone	S-1
Minuet.....		Nov. 23	Int. Pompon	S-2
Illini Formal.....		Nov. 23	Rose Pink; Int. Pompon	P-1
12-WEEK VARIETIES				
Pink Cloud.....		Nov. 25	Light Pink; Int. Decorative	P-1
Princess.....		Nov. 25	Small Pompon	P-3
Hasegawa Pink.....		Nov. 25	Lavender; Int. Single	S-1
*Beautiful Lady.....		Nov. 25	Lavender; L. Anemone	S-3
*Valencia.....	Aug. 9	Nov. 28	Orchid Pk.; Large Single	S-2
*Dark Valencia.....		Nov. 28	Sport of Valencia	S-2
*Dubonnet Valencia.....		Nov. 28	Deep Orchid Sport of Valencia	P-2
*Orchid Valencia.....		Nov. 28	Orchid Sport of Valencia	P-3
*Salmon Valencia.....		Nov. 28	Salmon Pink Sport of Valencia	P-3
Heritage.....		Dec. 1	Dark Pink; L. Formal Pompon	P-3
13-WEEK VARIETIES				
*Enchantress.....		Dec. 5	Large Anemone	S-2
*Dark Enchantress.....		Dec. 5	Deep Pk. Sport of Enchantress	S-1
Argyle.....		Dec. 10	Pink; Small Pompon	P-1
Debutante.....	Aug. 16	Dec. 10	Large Single	S-1
*Imp. Dark Supreme.....		Dec. 10	Sport of Dk. Pk. Supreme	S-1
*Minstrel.....		Dec. 13	Int. Formal Pompon	S-1
*Lt. Pk. Minstrel.....		Dec. 13	Sport of Minstrel	P-2
14-WEEK VARIETIES				
Riviera.....		Dec. 15	Luminous Pink; Int. Dec.	S-3
Serrated Riviera.....		Dec. 15	Sport of Riviera	P-2
Coronel.....		Dec. 15	Dark Pink; Int. Single	S-1
Rosalind.....	Aug. 23	Dec. 20	Int. Single	S-3
Defiance.....		Dec. 20	Int. Decorative	S-1
Medallion.....		Dec. 20	Int. Pompon	S-1
Rose Medallion.....		Dec. 20	Sport of Medallion	P-2

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloeckner Chrysanthemum Manual

WHITE STANDARDS

Variety	Last Pinch	Select Bud	Flowering Date	Description	Price Classification
8-WEEK VARIETIES					
Silver Sheen.....	July 12	Aug. 30	Oct. 20	Int. Incurred	S-3
White Chief.....		Aug. 30	Oct. 20	Int. Incurred	S-1
9-WEEK VARIETIES					
Ambassador.....	July 19	Aug. 30	Oct. 25	Cream White; Int. Semi-Incurred	S-2
Albatross.....		Sept. 5	Nov. 1	Pure White; Int. Incurred	S-2
10-WEEK VARIETIES					
Betsy Ross.....	July 26	Sept. 5	Nov. 5	Ivory White; L. Incurred	S-3
Giant Betsy Ross.....		Sept. 5	Nov. 5	Sport of Betsy Ross	S-2
Indianapolis White.....		Sept. 5	Nov. 5	Int. Incurred	S-3
Jean Elizabeth.....		Sept. 8	Nov. 10	L. Semi-Incurred	S-2
Crystal Queen.....		Sept. 8	Nov. 10	Imp. Jean Elizabeth	P-2
White Pockett.....		Sept. 8	Nov. 10	Large Incurred	S-1
Monument.....		Sept. 8	Nov. 10	Ivory White; Int. Incurred	S-2
11-WEEK VARIETIES					
Sterling.....	Aug. 2	Sept. 10	Nov. 15	Large Incurred	S-1
Marketeer.....		Sept. 15	Nov. 18	Int. Semi-Incurred	S-3
Mefo.....		Sept. 20	Nov. 20	Ivory White; L. Incurred	S-3
White Frick.....		Sept. 20	Nov. 20	Int. Incurred	S-2
Indiana Market.....		Sept. 20	Nov. 20	Int. Incurred	S-1
12-WEEK VARIETIES					
Chattanooga.....	Aug. 9	Sept. 30	Nov. 25	Large Incurred	S-3
December Glory.....		Oct. 1	Dec. 1	Ivory White; Int. Incurred	S-2
Margaret Moeller.....		Oct. 1	Dec. 3	Int. Incurred	S-3
13-WEEK VARIETIES					
December White.....	Aug. 16	Oct. 5	Dec. 5	Int. Incurred	S-2
White Mistletoe.....		Oct. 5	Dec. 5	Int. Incurred	S-2
Snowline.....		Oct. 8	Dec. 10	Large Incurred	S-1
Smith's White.....		Oct. 8	Dec. 13	Int. Semi-Incurred	S-2

YELLOW STANDARDS

8-WEEK VARIETIES					
Gold Lode.....	July 12	Aug. 25	Oct. 15	Int. Reflexed	S-3
Celestra.....		Aug. 25	Oct. 15	Small Semi-Incurred	S-2
Mrs. Kidder.....		Aug. 30	Oct. 20	Int. Incurred	S-3
Butterball.....		Aug. 30	Oct. 20	Int. Incurred	S-1
Blazing Gold.....		Aug. 30	Oct. 23	Golden Yellow; Int. Semi-Incurred	S-3
9-WEEK VARIETIES					
Smith Superlative.....	July 19	Aug. 30	Oct. 25	Golden Yellow; Int. Semi-Incurred	S-2
Yellow Ambassador.....		Aug. 30	Oct. 25	Sport of Ambassador	S-2
Yellow Bergen.....		Aug. 30	Oct. 25	Sport of Hilda Bergen	S-2
Sunglow.....		Aug. 30	Oct. 25	Golden Yellow; Int. Incurred	S-3
Golden Glory.....		Sept. 5	Nov. 1	Golden Yellow; Int. Incurred	S-2
Good News.....		Sept. 5	Nov. 1	Int. Incurred	S-2
10-WEEK VARIETIES					
Imp. Ind. Yellow.....	July 26	Sept. 5	Nov. 5	Sport of Ind. Yellow	S-1
Indianapolis Yellow.....		Sept. 5	Nov. 5	Int. Incurred	S-3
Yellow Queen.....		Sept. 8	Nov. 10	Sport of Orchid Queen	S-2
Jamboree.....		Sept. 8	Nov. 10	Golden Yellow; Int. Incurred	S-1
Yellow Pockett.....		Sept. 8	Nov. 10	Large Incurred	S-1
Yellow Monument.....		Sept. 8	Nov. 10	Sport of Monument	S-2
Honey Dew.....		Sept. 8	Nov. 12	Int. Incurred	S-2
11-WEEK VARIETIES					
Yellow Marketeer.....	Aug. 2	Sept. 15	Nov. 18	Sport of Marketeer	P-2
Bonnaffon Deluxe.....		Sept. 20	Nov. 20	Small Incurred	S-3
Friendly Rival.....		Sept. 20	Nov. 20	Int. Incurred	S-2
Yellow Mefo.....		Sept. 20	Nov. 20	Sport of Mefo	S-3
Cream Mefo.....		Sept. 20	Nov. 20	Sport of Mefo	S-2
Purdue.....		Sept. 25	Nov. 20	Int. Incurred	S-1
Harvester.....		Sept. 20	Nov. 23	Int. Incurred	S-3
Marie DePetris.....		Sept. 25	Nov. 23	Golden Yellow; Int. Incurred	S-2
12-WEEK VARIETIES					
Dk. Yel. Chattanooga.....	Aug. 9	Sept. 30	Nov. 25	Sport of Chattanooga	P-1
Yellow Chattanooga.....		Sept. 30	Nov. 25	Sport of Chattanooga	S-3
Golden Pearson.....		Sept. 30	Nov. 25	Int. Incurred	S-3
Sungold.....		Sept. 30	Nov. 25	Int. Incurred	S-2
Mrs. Calkins.....		Sept. 30	Nov. 25	Golden-Yel. Semi Inc.	S-1
Golden Mrs. Ross.....		Oct. 1	Dec. 3	Golden Yellow; L. Incurred	S-3
Yellow Moeller.....		Oct. 1	Dec. 3	Sport of Margaret Moeller	S-1
13-WEEK VARIETIES					
Golden Mistletoe.....	Aug. 16	Oct. 5	Dec. 5	Int. Incurred	S-2
Chalice.....		Oct. 5	Dec. 5	Int. Incurred	P-3
Tobin's Yellow.....		Oct. 8	Dec. 13	Int. Semi-Incurred	S-2
Meteore.....		Oct. 8	Dec. 13	Int. Semi-Incurred	S-2
Dauntless.....		Oct. 8	Dec. 13	Golden Yellow; Semi-Incurred	S-1

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloekner Chrysanthemum Manual

BRONZE and RED STANDARDS

Variety	Last Pinch	Select Bud	Flowering Date	Description	Price Classification
9-WEEK VARIETIES					
Hilda Bergen.....	July 19	Aug. 30	Oct. 25	Int. Incurred	S-2
Glitters.....		Sept. 1	Oct. 28	Reddish Orange; Int. Reflexed	S-2
Red Glitters.....		Sept. 1	Oct. 28	Sport of Glitters	S-2
Ivanhoe.....		Sept. 5	Nov. 1	Reddish Bronze; Small Incurred	S-2
Apricot Queen.....		Sept. 5	Nov. 1	Orange Bronze; Int. Incurred	S-2
Detroit News.....		Sept. 5	Nov. 1	Reddish Bronze; Int. Incurred	S-2
10-WEEK VARIETIES					
Indianapolis Bronze.....	July 26	Sept. 5	Nov. 5	Int. Incurred	S-3
Dark Ind. Bronze.....		Sept. 5	Nov. 5	Sport of Ind. Bronze	P-2
Anaconda.....		Sept. 7	Nov. 8	Coppery Red; Large Incurred	S-2
Oakdale.....		Sept. 8	Nov. 10	Buff Bronze; Int. Incurred	S-1
Mrs. Stahelin.....		Sept. 8	Nov. 10	Reddish Bronze; Int. Incurred	S-1
Bronze Orchid Queen.....		Sept. 8	Nov. 10	Sport of Orchid Queen	S-2
Mrs. Roy.....		Sept. 10	Nov. 13	Red; Int. Incurred	S-1
Garnet King.....		Sept. 10	Nov. 13	Deep Red; Int. Reflexed	S-2
Bronze Frick.....	Aug. 2	Sept. 20	Nov. 20	Sport of Helen Frick	S-2
11-WEEK VARIETY					
12-WEEK VARIETIES					
Gladys Pearson.....	Aug. 9	Sept. 30	Nov. 25	Buff Bronze; Int. Incurred	S-3
Oak Leaf.....		Sept. 30	Nov. 25	Deep Bronze; Int. Incurred	S-3
Muto's Crimson.....		Oct. 1	Dec. 1	Red; Int. Semi-Incurred	S-1
Bronze Mistletoe.....	Aug. 16	Oct. 5	Dec. 5	Int. Incurred	S-2

PINK STANDARDS

8-WEEK VARIETY					
Pink Chief.....	July 12	Aug. 25	Oct. 15	Lavender; Int. Incurred	S-3
9-WEEK VARIETY					
Sugarplum.....	July 19	Sept. 5	Nov. 1	Int. Incurred	S-1
10-WEEK VARIETIES					
J. W. Prince.....	July 26	Sept. 5	Nov. 5	Lav.; Int. Incurred	S-2
Indianapolis Pink.....		Sept. 5	Nov. 5	Int. Incurred	S-3
Orchid Queen.....		Sept. 8	Nov. 10	Orchid Pink; Semi-Incurred	S-2
Lavender Queen.....		Sept. 8	Nov. 10	Sport of Orchid Queen	S-1
Dark Orchid Queen.....		Sept. 8	Nov. 10	Deep Pink Sport of Orch. Queen	S-2
Pink Pockett.....		Sept. 8	Nov. 10	Large Incurred	S-1
11-WEEK VARIETIES					
Helen Frick.....	Aug. 2	Sept. 20	Nov. 20	Rose Pink; Int. Incurred	S-2
Thanksgiving Pink.....		Sept. 25	Nov. 23	Deep Pink; Int. Reflexed	S-3
Ed. Seidewitz.....		Sept. 25	Nov. 23	Lavender; Int. Incurred	S-2
Pink Mistletoe.....	Aug. 16	Oct. 5	Dec. 5	Int. Incurred	S-2

Odd Flowered Spider Types

Variety	Last Pinch	Select Bud	Flowering Date	Description	Price Classification
9-WEEK VARIETIES					
Moribana.....	July 19	Sept. 3	Oct. 25	Yellow	P-2
Dalwin.....		Sept. 3	Oct. 25	Light Bronze	P-2
Queen's Lace.....		Sept. 5	Nov. 1	White	S-1
Kay Tashima.....		Sept. 5	Nov. 1	White	S-1
Yellow Lace.....		Sept. 5	Nov. 1	Yellow	S-1
Gold Lace.....		Sept. 5	Nov. 1	Imp. Yellow Lace	P-2
Hooked Yellow Lace.....		Sept. 5	Nov. 1	Sport of Yel. Lace	P-2
Mrs. Walker.....		Sept. 5	Nov. 1	Deep Lavender	S-1
Mary Garden.....		Sept. 5	Nov. 1	Pink	S-1
10-WEEK VARIETIES					
White Rayonnante.....	July 26	Sept. 5	Nov. 5	White	S-2
Yellow Rayonnante.....		Sept. 5	Nov. 5	Yellow	S-1
Waikiki.....		Sept. 5	Nov. 5	Apricot Bronze	S-1
Gena Harwood.....		Sept. 5	Nov. 5	Buff Bronze	S-1
(Br. Rayonnante)					
Nomago.....		Sept. 5	Nov. 5	Bronze	P-3
Mamaru.....		Sept. 5	Nov. 5	Buff Bronze	S-2
Rayonnante.....		Sept. 5	Nov. 5	Pink	S-2
Peggy Ann Hoover.....		Sept. 5	Nov. 5	Pink	S-1
11-WEEK VARIETY					
Lorraine.....	Aug. 2	Sept. 10	Nov. 15	Yellow	S-1

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES

Gloekner Chrysanthemum Manual

Pot Plant Varieties

Variety	Last Pinch	Spray or Disbud	Date Flowering	Type	Price Classification
WHITE					
8-WEEK VARIETY					
Christina	Aug. 30	Disbud	Oct. 23	L.F. Inc.	S-1
9-WEEK VARIETIES					
Granite State	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-3
Queen's Lace	Sept. 13	Disbud	Nov. 1	Spider	S-1
Wilson's White	Aug. 30	Disbud	Nov. 1	L.F. Inc.	P-3
10-WEEK VARIETIES					
Indianapolis White	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-3
Richard Mandel	Sept. 6	Disbud	Nov. 5	L.F. Inc.	S-2
Little America	Sept. 6	Disbud	Nov. 10	Int. Anem.	S-3
11-WEEK VARIETIES					
Marketeer	Sept. 13	Disbud	Nov. 18	L.F. Inc.	S-3
Long Island Beauty	Sept. 13	Disbud	Nov. 20	L. Anem.	S-3
White Frick	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-2
12-WEEK VARIETIES					
White Lady	Sept. 20	Disbud	Nov. 25	L. Anem.	P-2
Margaret Moeller	Sept. 20	Disbud	Dec. 3	L.F. Inc.	S-3
YELLOW					
8-WEEK VARIETIES					
Arlora	Aug. 30	Disbud	Oct. 15	L. Pom.	P-1
Gold Lode	Aug. 30	Disbud	Oct. 15	L.F. Dec.	S-3
Mrs. H. E. Kidder	Aug. 30	Disbud	Oct. 20	L.F. Inc.	S-3
Blazing Gold	Aug. 30	Disbud	Oct. 23	L.F. Inc.	S-3
9-WEEK VARIETIES					
Ordalia	Aug. 30	Disbud	Oct. 25	L. Pom.	P-1
Smith's Superlative	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-2
Yellow Bergen	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-2
Sunglow	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-3
Golden Glory	Aug. 30	Disbud	Nov. 1	L.F. Inc.	S-2
Yellow Lace	Sept. 13	Disbud	Nov. 1	Spider	S-1
Gold Lace	Sept. 13	Disbud	Nov. 1	Spider	P-2
Hooked Yellow Lace	Sept. 13	Disbud	Nov. 1	Spider	P-2
10-WEEK VARIETIES					
Dark Indianapolis Yellow	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-2
Indianapolis Yellow	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-3
Yellow Beauty	Sept. 5	Disbud	Nov. 10	L.F. Inc.	S-2
Honey Dew	Sept. 6	Disbud	Nov. 12	L.F. Inc.	S-2
11-WEEK VARIETIES					
Yellow Marketeer	Sept. 13	Disbud	Nov. 18	L.F. Inc.	P-2
Bonnafton Deluxe	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-3
Friendly Rival	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-2
Purdue	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-1
Marie DePetris	Sept. 13	Disbud	Nov. 23	L.F. Inc.	S-2
12-WEEK VARIETIES					
Sungold	Sept. 20	Disbud	Nov. 25	L.F. Inc.	S-2
Yellow Moeller	Sept. 20	Disbud	Dec. 3	L.F. Inc.	S-1
13-WEEK VARIETY					
Dauntless	Sept. 27	Disbud	Dec. 13	L.F. Inc.	S-1

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES.



WEST COAST LIGHTING TO EXTEND BLOOMING PERIOD OF RAYONNANTE VARIETIES

Gloeckner Chrysanthemum Manual

Pot Plant Varieties

Variety	Last Pinch	Spray or Disbud	Flowering Date	Type	Price Classification
BRONZE and RED					
9-WEEK VARIETIES					
Hilda Bergen.....	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-2
Glitters.....	Sept. 13	Disbud	Oct. 28	L.F. Dec.	S-2
Red Glitters.....	Sept. 13	Disbud	Oct. 28	L.F. Dec.	S-2
Apricot Queen.....	Sept. 13	Disbud	Nov. 1	L.F. Inc.	S-2
Royal Bronze.....	Sept. 13	Disbud	Nov. 1	L.F. Inc.	P-2
10-WEEK VARIETIES					
Indianapolis Bronze.....	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-3
Indianapolis Gold. Bronze...	Sept. 13	Disbud	Nov. 5	Quilled	P-3
Dark Indianapolis Bronze....	Sept. 13	Disbud	Nov. 5	L.F. Inc.	P-2
Gypsy.....	Sept. 6	Spray	Nov. 8	Int. Anem.	S-3
Copperhead.....	Sept. 13	Disbud	Nov. 10	L. Pom.	S-1
Dark Bronze Masterpiece.....	Sept. 13	Disbud	Nov. 12	L. Pom.	S-2
Red King.....	Sept. 13	Disbud	Nov. 13	L. Single	P-1
Cadet.....	Sept. 13	Disbud	Nov. 14	L. Anem.	P-1
11-WEEK VARIETY					
Red Rolinda.....	Sept. 13	Disbud	Nov. 23	Int. Anem.	S-3
12-WEEK VARIETY					
Muto's Crimson.....	Sept. 20	Disbud	Dec. 1	L.F. Inc.	S-1
PINK					
8-WEEK VARIETY					
Fairyland.....	Aug. 30	Disbud	Oct. 15	Int. Pom.	P-1
9-WEEK VARIETY					
Bluechip.....	Aug. 30	Disbud	Nov. 1	Int. Pom.	P-1
10-WEEK VARIETIES					
Indianapolis Pink.....	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-3
Portrait.....	Sept. 6	Disbud	Nov. 8	L. Pom.	P-1
Cover Girl.....	Sept. 6	Disbud	Nov. 10	L. Anem.	P-1
Thyra.....	Sept. 6	Disbud	Nov. 10	Int. Pom.	S-3
Queen of Pinks.....	Sept. 6	Disbud	Nov. 10	L. Pom.	S-3
Masterpiece.....	Sept. 13	Disbud	Nov. 12	L. Pom.	S-3
Rose Masterpiece.....	Sept. 13	Disbud	Nov. 12	L. Pom.	S-2
Salmon Masterpiece.....	Sept. 13	Disbud	Nov. 12	L. Pom.	S-2
11-WEEK VARIETIES					
Carole.....	Sept. 13	Disbud	Nov. 15	L. Anem.	P-1
Helen Frick.....	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-2
Majorette.....	Sept. 13	Disbud	Nov. 20	L. Anem.	S-1
Polka.....	Sept. 13	Disbud	Nov. 20	L. Anem.	P-1
Illini Formal.....	Sept. 13	Disbud	Nov. 23	Int. Pom.	P-1
12-WEEK VARIETY					
Beautiful Lady.....	Sept. 20	Disbud	Nov. 25	L. Anem.	S-3

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES.



FIELD VIEW OF GARDEN MOUNT

Gloeckner Chrysanthemum Manual



Growing Large Mums Using Wire Square Supports

Collections

Rooted Cuttings of a given number of varieties in any one general group may be ordered as a collection when varieties are not specified. Such collections are priced as follows:

- A. 250 r. c. **\$14.25**
50 each of 5 varieties
- B. 500 r. c. **25.50**
50 each of 10 varieties
or
100 each of 5 varieties
- C. 1000 r. c. **48.00**
50 each of 20 varieties
100 each of 10 varieties
or
200 each of 5 varieties
- D. 2500 r. c. **112.50**
50 each of 50 varieties
100 each of 25 varieties
250 each of 10 varieties
500 each of 5 varieties

PRICES FOR 50 OR MULTIPLES OF 50 OF A VARIETY PER SHIPMENT ARE INDICATED IN THIS TABLE

Price Classification	PER 50 50	PER 100				
		100-250	300-450	500-950	1000-2450	2500 up—
P-0	7.50	14.25	13.50	12.75	12.00	11.25
—	6.25	12.00	11.50	11.00	10.50	10.00
P-1	5.00	9.50	9.00	8.50	8.00	7.50
P-2	4.50	8.55	8.10	7.65	7.20	6.75
P-3	4.00	7.60	7.20	6.80	6.40	6.00
S-1	3.50	6.65	6.30	5.95	5.60	5.25
S-2	3.25	6.15	5.85	5.50	5.20	4.85
S-3	3.00	5.70	5.40	5.10	4.80	4.50

This price table is effective until September 1, 1954.

New Introductions—Garden Varieties

WHITE

OSTOSA

Sept. 25

Solid pure white medium pompon type. Vigorous, semi-dwarf habit. Very free flowering with good substance.

LIMELIGHT

Oct. 5

Very free and productive solid white pompon with a greenish cast. Excellent substance and form as well as placement. This variety should be outstanding for cutting besides making a very showy white pompon for the garden.

YELLOW

BUTTERCUP (H)

Oct. 1

Large golden yellow incurving bloom. Free growth and good foliage as well as free flowering.

SUNSTONE

Oct. 8

Very free and vigorous plant producing many blooms of soft yellow spoon or spider like blooms on good stems. Tall habit of growth. Useful for cutting as well as garden decoration.

SARASOTA

Oct. 15

Lively yellow solid pompon with good size and substance. Vigorous and productive, therefore suitable for cut flowers.

BRONZE & RED

REGINA

Oct. 1

Large decorative blooms of a pleasing coral apricot bronze color. Very free flowering.

CALUMET

Oct. 10

Outstanding full decorative blooms of good size and substance produced on strong clean stems of good length. Color is a lively apricot with a luminous glow. This is a Rubellum hybrid which produces high quality blooms with almost perfect stems and sprays without shading.

CHOPIN

Oct. 15

Large incurved light bronze averaging 4" to 4½" which grows 20 or more blooms to the plant. Very strong stems and vigorous semi-dwarf growth.

ARVIS

Oct. 15

Vivid bronze small pompon. Free growth and good stems.

PINK

CORONA (H)

Oct. 5

An outstanding vivid pink daisy shading to wine. Of good size and excellent substance. Good growth and foliage. Excellent for cutting and garden decoration.

Prices above 10 varieties, each: 50 Cuttings for \$7.50; 100-250, \$14.25 per 100; 300-450, \$13.50 per 100; 500-950, \$12.75 per 100; 1000-2450, \$12.00 per 100; 2500-up \$11.25 per 100.

SPECIAL COLLECTIONS OF GARDEN VARIETIES

For growers who are not familiar with Garden Varieties, but who want a well-balanced assortment, we offer the following collections which include the better varieties.

SPECIAL No. 1

Rooted Cuttings
Our selection
Ten taller varieties
for cutting.

SPECIAL No. 2

Rooted Cuttings
Our selection for pots
or bedding.

SPECIAL No. 3

Rooted Cuttings
Our selection
Half for cutting
Half for bedding.

SPECIAL No. 4

Rooted Cuttings
Our selection for
Easter, Mother's Day
or Memorial Day Pots
(Specify Blooming Date)

PLEASE SPECIFY NUMBER OF VARIETIES.

250 r. c. \$ 14.25

50 each of 5 varieties

500 r. c. \$ 25.50

50 each of 10 varieties
or
100 each of 5 varieties

1000 r. c. \$ 48.00

50 each of 20 varieties
100 each of 10 varieties
or
200 each of 5 varieties

2500 r. c. \$112.50

50 each of 50 varieties or
100 each of 25 varieties or
250 each of 10 varieties or
500 each of 5 varieties

Gloeckner Chrysanthemum Manual

Garden Varieties

SYMBOLS — (L) Large — (D) Decorative — (P) Pompon — (C) Cushion — (S) Single — (B) Button — (C-F) Carnation Flowered.
 *Recommended for Mother's Day pot plants — pinched and short day treatment same day.
 D Varieties recommended as better when disbudded.

Variety	Size and Type	Color	Height	Matures	Price 50 Only
WHITE					
Osage.....	(D)	White	Med.	Sept. 5	\$7.50
Candlelight.....	(D)	Ivory	Med.	Sept. 5	3.00
D D. Ahrens.....	(D)	White	Tall	Sept. 10	3.00
Paper White.....	(D)	White	Med.	Sept. 10	3.50
*Chris Columbus.....	(LD)	Cream	Tall	Sept. 15	3.50
Wh. Cushion.....	(C)	White	Short	Sept. 15	3.00
*Calcite.....	(D)	Cream	Med.	Sept. 15	3.00
Drifted Snow.....	(D)	Cream	Med.	Sept. 15	3.00
Powder Puff.....					
(Cushion)	(D)	White	Short	Sept. 15	3.50
Polar Ice.....	(LD)	White	Med.	Sept. 15	3.50
*Wh. Bounty.....	(B)	White	Tall	Sept. 15	3.50
D Wh. Tower.....	(LP)	Cream	Tall	Sept. 15	3.25
Wh. Wonder.....	(LP)	Ivory	Med.	Sept. 25	3.25
*Shalimar (H).....	(LP)	Cream	Tall	Sept. 25	4.00
Ostosa (New).....	(LP)	White	Short	Sept. 25	7.50
Wh. Cloud.....	(D)	White	Tall	Sept. 25	3.50
*Pepita.....	(B)	White	Med.	Sept. 28	3.50
Snow Fall.....	(D)	White	Med.	Oct. 1	3.50
Ermine.....	(D)	Ivory	Med.	Oct. 1	3.50
Spindrift.....	(LD)	White	Med.	Oct. 1	5.00
Winter set (H).....	(LD)	White	Med.	Oct. 5	3.25
Limelight (New).....	(P)	White	Med.	Oct. 5	7.50
*Lyric.....	(S)	White	Short	Oct. 5	4.00
Avalanche.....	(LD)	Cream	Tall	Oct. 5	3.25
*Horizon.....	(P)	White	Med.	Oct. 5	4.00
Youdath's Wh.....	(LD)	White	Med.	Oct. 5	3.00
Marshmallow (New).....	(S)	White	Short	Oct. 5	5.00
*Monogram.....	(S)	White	Short	Oct. 5	3.50
Snow Elf.....	(P)	White	Med.	Oct. 8	3.50
*Classic.....	(B)	White	Tall	Oct. 10	3.50
*Maestro.....	(P)	White	Short	Oct. 10	3.50
*Renown.....	(S)	White	Med.	Oct. 10	3.50
Wh. Spoon.....	(Spoon)	White	Med.	Oct. 10	3.00
*Silverplate.....	(D)	White	Med.	Oct. 12	3.50
Silver Ball.....	(P)	White	Tall	Oct. 15	3.00
Irene.....	(B)	White	Med.	Oct. 15	3.25
Norona.....	(SP)	White	Med.	Oct. 15	4.00
YELLOW					
Pathfinder.....	(C-F)	Lemon	Med.	Aug. 28	7.50
Butterball (H).....	(P)	Golden	Short	Sept. 1	3.50
*Early Gold.....	(P)	Golden	Short	Sept. 5	3.50
Golden Hours.....	(P)	Chrome Yellow	Med.	Sept. 8	3.25
Genista.....	(P)	Canary	Med.	Sept. 12	6.25
Yel. Supreme (H).....	(C)	Br. Lemon	Short	Sept. 15	3.00
*Pomponette.....	(P)	Golden	Short	Sept. 15	3.00
Yel. Cushion.....	(C)	Light Yellow	Short	Sept. 15	3.00
Sunapee.....	(P)	Deep Lemon	Tall	Sept. 15	3.25
*Yel. Chris. Columbus.....	(LD)	Br. Lemon	Med.	Sept. 15	3.50
Yel. Avalanche.....	(LD)	Lt. Lemon	Tall	Sept. 15	3.25
*Early Yellow.....	(B)	Dp. Lemon	Short	Sept. 15	3.00
Defiance (H).....	(D)	Golden	Tall	Sept. 15	3.50
Golden Carpet.....	(P)	Golden	Short	Sept. 15	4.00
Bowl O' Gold.....	(P)	Canary	Short	Sept. 15	7.50
(Cushion)					
*D Ming.....	(P)	Orange Yellow	Med.	Sept. 18	4.50
*Sept. Sunshine.....	(S)	Br. Lemon	Med.	Sept. 20	3.25
Wychwood.....	(LP)	Canary	Med.	Sept. 20	3.25
Canary Wonder.....	(P)	Canary	Med.	Sept. 25	4.00
Chas. Nye.....	(LP)	Dp. Lemon	Tall	Sept. 25	3.25
Honeycomb.....	(P)	Golden	Med.	Sept. 25	3.25
*Moonlight.....	(D)	Br. Yellow	Med.	Sept. 25	4.50
Lee Powell.....	(LD)	Chinese Yellow	Tall	Sept. 25	4.50

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES.

Gloeckner Chrysanthemum Manual

Garden Varieties

Variety	Size and Type	Color	Height	Matures	Price 50 Only
YELLOW (Cont'd)					
Tangerine.....	(LD)	Dp. Orange	Med.	Sept. 25	3.25
Flaxen Beauty.....	(LD)	Light Lemon	Med.	Oct. 1	4.50
King Midas.....	(LD)	Lemon	Med.	Oct. 1	3.00
*Chiquita.....	(B)	Deep Lemon	Med.	Oct. 1	3.25
James Eadie.....	(LP)	Deep Chrome	Tall	Oct. 5	3.25
Garland.....	(S)	Lemon	Short	Oct. 5	4.00
Polaris.....	(S)	Golden Buff	Med.	Oct. 5	3.50
Vanguard.....	(LP)	Golden	Med.	Oct. 5	4.00
*D Mrs. Rotan.....	(LD)	Deep Chrome	Med.	Oct. 5	3.25
Dwight Douglas.....	(LD)	Golden Yellow	Med.	Oct. 5	6.25
Sunstone (New).....	(Spoon)	Light Yellow	Tall	Oct. 8	7.50
*Yel. Spoon.....	(Spoon)	Light Yellow	Med.	Oct. 10	3.50
Treasure.....	(P)	Golden	Tall	Oct. 10	4.00
Golden Spoon.....	(Spoon)	Golden	Med.	Oct. 10	3.00
*Yel. Blanket.....	(B)	Brt. Lemon	Med.	Oct. 10	3.25
Bright Forecast.....	(P)	Brt. Lemon	Med.	Oct. 10	3.50
*Goldrush.....	(S)	Lemon	Med.	Oct. 10	3.50
Sweepstake.....	(P)	Lemon	Med.	Oct. 12	3.50
*Lemonade.....	(P)	Ivory Yellow	Med.	Oct. 12	3.50
Judith Anderson.....	(P)	Golden	Med.	Oct. 15	3.00
*Gold Lode.....	(L-Inc.)	Golden	Med.	Oct. 15	3.00
Rodell Imp.....	(B)	Light Lemon	Med.	Oct. 15	3.00
Yel. Irene.....	(B)	Light Lemon	Med.	Oct. 15	3.25
Buttercup (H) (New).....	(L-Inc.)	Golden	Short	Oct. 15	7.50
Old Gold.....	(P)	Golden	Med.	Oct. 15	3.25
Sarasota (New).....	(P)	Brt. Lemon	Med.	Oct. 15	7.50
Arlora (New).....	(LP)	Soft Yellow	Short	Oct. 15	5.00
BRONZE and RED					
Early Harvest.....	(C)	Mah. Orange	Short	Sept. 8	3.25
Harbinger.....	(D)	Golden Bronze	Short	Sept. 8	3.25
*Early Bronze.....	(B)	Orange Bronze	Short	Sept. 8	3.00
*W. P. Snyder.....	(LP)	Apr. Orange	Med.	Sept. 10	3.50
Autumn Song.....	(D)	Wine Rose	Med.	Sept. 10	3.25
Apache.....	(LD)	Red & Gold	Med.	Sept. 15	7.50
Red Gold.....	(B)	Red & Gold	Med.	Sept. 15	3.25
Orloma.....	(D)	Apr. Bronze	Med.	Sept. 15	6.25
Overly.....	(C)	Bronze	Med.	Sept. 20	7.50
Sept. Bronze.....	(B)	Golden Bronze	Med.	Sept. 20	3.00
Goblin.....	(P)	Golden Bronze	Tall	Sept. 20	3.00
Red Glow.....	(P)	Dark Red	Med.	Sept. 20	3.50
*Orsona.....	(D)	Red & Bronze	Med.	Sept. 20	6.25
Scarlet Crimson.....	(D)	Brt. Red	Med.	Sept. 20	3.25
Mme. Cadillac.....	(P)	Raspberry Wine	Short	Sept. 20	6.25
Rouge Cushion.....	(C)	Brt. Red	Short	Sept. 25	4.50
Br. Wonder.....	(LP)	Rosewood	Med.	Sept. 25	4.00
Champ. Cushion.....	(C)	Deep Bronze	Short	Sept. 25	3.00
Comd. Cushion.....	(C)	Red	Short	Sept. 25	3.00
Mah. Cushion.....	(C)	Jasper Red	Short	Sept. 25	3.00
Marionette.....	(P)	Rust Red	Med.	Sept. 25	3.50
Holiday (H).....	(P)	Golden Bronze	Med.	Sept. 25	4.50
*Remembrance.....	(LD)	Deep Carmine	Med.	Sept. 28	3.50
Kath. Lehman.....	(LD)	Orange Bronze	Med.	Sept. 28	4.00
Admiration.....	(LD)	Salmon Fawn	Med.	Sept. 28	7.50
Jubilee (H).....	(P)	Crimson	Med.	Oct. 1	5.00
Mogul.....	(P)	Orange Rust	Med.	Oct. 1	4.50
Reverie.....	(D)	Buff Bronze	Med.	Oct. 1	7.50
Fiesta.....	(P)	Orange Rust	Med.	Oct. 1	3.50
Magnificent.....	(LD)	Plum Red	Tall	Oct. 1	3.50
Red Cloud (Cushion).....	(C)	Scarlet	Med.	Oct. 1	3.50
Red Riding Hood.....	(D)	Brt. Red	Med.	Oct. 1	3.25
Sam Williston.....	(C)	Deep Red	Short	Oct. 1	3.00
(Cushion)					
Gondolier.....	(LD)	Crimson	Med.	Oct. 1	7.50
Bonfire.....	(D)	Brt. Red	Med.	Oct. 1	3.50
Brigadier.....	(LP)	Plum Red	Med.	Oct. 1	4.50
Regina (New).....	(LD)	Apricot Bronze	Med.	Oct. 1	7.50
Card. Spoon.....	(Spoon)	Red Bronze	Med.	Oct. 1	3.50
Buckeye (New).....	(P)	Sal. Bronze	Short	Oct. 3	5.00
Firecracker.....	(D)	Mahogany	Tall	Oct. 5	4.00
Cydonia.....	(LD)	Mahogany	Tall	Oct. 5	3.00
*Sept. Cheer.....	(S)	Cherry Red	Med.	Oct. 5	3.00
Burgundy.....	(LD)	Wine Red	Tall	Oct. 5	3.00

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES.

Gloekner Chrysanthemum Manual

Garden Varieties

Variety	Size and Type	Color	Height	Matures	Price 50 Only
BRONZE and RED (Cont'd)					
Ruby Pompon.....	(P)	Ruby Crimson	Med.	Oct. 5	3.00
Red Velvet.....	(LD)	Dark Crimson	Med.	Oct. 5	3.25
*Mona.....	(P)	Rust Bronze	Med.	Oct. 5	3.50
Avalon.....	(P)	Orange Bronze	Tall	Oct. 5	4.50
Couragous.....	(LD)	Dark Ruby	Med.	Oct. 5	3.25
*Mrs. DuPont.....	(LD)	Coral Buff	Tall	Oct. 5	3.50
Beacon.....	(LD)	Coral Apr.	Tall	Oct. 8	3.50
Panorama.....	(D)	Orange Rust	Tall	Oct. 8	4.50
Aviator.....	(P)	Copper	Med.	Oct. 8	3.25
Success.....	(LP)	Deep Crimson	Med.	Oct. 8	3.50
Amber Glow.....	(LD)	Rosey Bronze	Tall	Oct. 8	3.25
Miguel.....	(D)	Raspberry Red	Tall	Oct. 8	6.25
*D Calumet (H) (New).....	(D)	Apricot	Med.	Oct. 10	7.50
The Chief.....	(D)	Scarlet & Gold	Med.	Oct. 10	3.00
Huntsman.....	(LD)	Scarlet Orange	Tall	Oct. 10	3.50
Bokhara.....	(D)	Crimson	Med.	Oct. 10	3.50
Carnival.....	(LP)	Burnt Orange	Med.	Oct. 10	3.50
Caravan.....	(LD)	Salmon Bronze	Med.	Oct. 10	4.00
Blueblood.....	(D)	Amaranth Red	Tall	Oct. 10	4.00
Orpheus.....	(LP)	Roman Red	Tall	Oct. 10	6.25
Carmine Queen.....	(LP)	Carmine	Tall	Oct. 10	3.50
*Bamboo.....	(S)	Buff Orange	Tall	Oct. 10	3.50
Fireside.....	(D)	Burnt Orange	Tall	Oct. 10	3.50
Nyloda.....	(S)	Golden Apr.	Med.	Oct. 12	4.50
Admiral.....	(D)	Dark Red	Med.	Oct. 12	4.00
Fashion.....	(D)	Rosewood	Med.	Oct. 12	4.00
Witchery.....	(D)	Golden Bronze	Med.	Oct. 12	3.50
Nokomis.....	(LD)	Red Bronze	Med.	Oct. 12	3.50
Nocturne.....	(P)	Crimson	Med.	Oct. 12	3.50
Moonmaid (New).....	(P)	Sal. Bronze	Tall	Oct. 14	5.00
*James Stewart.....	(P)	Apr. Gold	Tall	Oct. 15	3.50
Robinhue.....	(LD)	Dark Red	Tall	Oct. 15	3.50
Br. Pyramid.....	(LD)	Orange Bronze	Tall	Oct. 15	3.25
Mayford's Triumph.....	(L-Inc.)	Scarlet Bronze	Tall	Oct. 15	3.50
Detroit.....	(P)	Red Bronze	Tall	Oct. 15	3.50
*Carmelita.....	(LD)	Apr. Bronze	Tall	Oct. 15	3.50
Cocktail.....	(P)	Salmon Bronze	Med.	Oct. 15	4.00
Rajah.....	(S)	Scarlet	Tall	Oct. 15	4.00
Chopin (New).....	(L-Inc.)	Lt. Bronze	Med.	Oct. 15	7.50
Arvis (New).....	(P)	Bronze	Tall	Oct. 15	7.50
PINK and LAVENDER					
Gladness.....	(D)	China Rose	Short	Aug. 28	3.50
Cecil Beed.....	(D)	Deep Lav.	Med.	Sept. 1	4.50
Dr. Longley.....	(D)	Rose Pink	Med.	Sept. 1	4.00
Dr. Graham.....	(D)	Lavender	Med.	Sept. 1	7.50
Sal. Precose.....	(LD)	Salmon Pink	Short	Sept. 1	3.50
*Welcome.....	(S)	Rose Pink	Med.	Sept. 1	3.00
Rosa.....	(C)	Rose Pink	Med.	Sept. 5	7.50
*Purple Star.....	(P)	Purple	Med.	Sept. 5	3.00
Barbara Small.....	(P)	Lavender	Tall	Sept. 10	3.25
*D Nye's Favorite.....	(D)	Lavender	Med.	Sept. 10	3.50
*Orchid Helen.....	(D)	Orch. Lavender	Med.	Sept. 10	4.00
Royal Robe.....	(D)	Purple	Med.	Sept. 15	5.00
Chippewa.....	(LD)	Br. Purple	Med.	Sept. 15	3.25
Violet.....	(P)	Amaranth Pink	Med.	Sept. 15	3.25
Fairbow.....	(P)	Lavender Pink	Med.	Sept. 20	3.50
Tapestry.....	(LD)	Br. Pink	Med.	Sept. 20	4.00
Heather Bloom.....	(D)	Heather Pink	Med.	Sept. 20	3.00
*Alert.....	(LD)	Dark Purple	Med.	Sept. 20	3.00
Olive Longland.....	(LD)	Apr. Salmon	Med.	Sept. 25	3.00
Imp. Early Wonder.....	(P)	Lavender	Med.	Sept. 25	3.25
*Spellbound.....	(D)	Lavender	Med.	Sept. 25	3.25
Capt. J. Smith.....	(C)	Lavender Pink	Short	Sept. 25	3.00
*Maj. Cushion.....	(C)	Lavender	Short	Sept. 25	3.00
Pk. Beauty.....	(D)	Salmon Pink	Med.	Sept. 25	3.00
Sept. Dawn.....	(D)	Rose Pink	Med.	Sept. 25	3.00
Pk. Opal.....	(P)	Persian Rose	Med.	Sept. 28	4.50
Rosita.....	(B)	Lavender Rose	Med.	Sept. 28	3.25
Malinda Brown.....	(P)	Lavender Rose	Med.	Sept. 28	5.00
Betty.....	(LD)	Pink Rose Ctr.	Tall	Sept. 28	3.50
Misty Maid.....	(D)	Light Pink	Med.	Sept. 28	3.50
Pat. Lehman.....	(D)	Peach Pink	Tall	Sept. 28	4.00

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES.

Gloeckner Chrysanthemum Manual

Garden Varieties

Variety	Size and Type	Color	Height	Matures	Price 50 Only
PINK and LAVENDER (Cont'd)					
Fascination.....	(LD)	Lavender Pink	Med.	Oct. 1	5.00
*D Myrtle Walgreen.....	(LP)	Amar. Purple	Med.	Oct. 1	3.50
*Tiffany Rose.....	(S)	Deep Rose	Med.	Oct. 1	3.00
Mischief.....	(S)	Purple	Short	Oct. 1	7.50
Alex Cummings.....	(LD)	Deep Rose	Tall	Oct. 3	5.00
Enterprise.....	(P)	Amaranth	Tall	Oct. 5	4.50
Corona (H) (New).....	(S)	Deep Lavender	Tall	Oct. 5	7.50
*Pk. Surprise.....	(D)	Lavender	Tall	Oct. 5	3.50
*Lav. Lady.....	(D)	Lavender Pink	Tall	Oct. 5	3.50
Petrisian Mauve.....	(P)	Mauve	Med.	Oct. 5	7.50
Petrisian Pink.....	(P)	Pink	Med.	Oct. 5	7.50
Petrisian Rose.....	(P)	Dark Pink	Med.	Oct. 5	7.50
Ponca.....	(SD)	Dark Lavender	Short	Oct. 10	3.50
Dream Girl.....	(P)	Light Lavender	Med.	Oct. 10	3.50
Argonne.....	(P)	Dark Lavender	Med.	Oct. 10	3.50
*Coutier.....	(D)	Lavender Pink	Med.	Oct. 10	4.00
Time.....	(LP)	Lavender	Med.	Oct. 10	3.50
Orch. Spoon.....	(Spoon)	Orch. Lavender	Med.	Oct. 10	3.50
Rose Spoon.....	(Spoon)	Lavender Rose	Med.	Oct. 10	3.00
Lassie.....	(LD)	Dark Pink	Med.	Oct. 10	4.00
*Masquerade.....	(P)	Lavender Rose	Med.	Oct. 10	3.50
*Joybringer.....	(D)	Salmon Rose	Short	Oct. 10	3.50
Ronnie.....	(B)	Dark Lavender	Med.	Oct. 12	3.50
*Serenade.....	(S)	Magenta	Tall	Oct. 10	3.50
Elizabeth Hood.....	(LD)	Lavender Pink	Med.	Oct. 12	4.50
Allegro.....	(P)	Shrimp Pink	Med.	Oct. 12	3.25
Adagio.....	(P)	Raspberry Rose	Tall	Oct. 12	3.50
Sonnei.....	(D)	Salmon Pink	Med.	Oct. 14	5.00
Dawn Rose.....	(LD)	Grenadine Pink	Med.	Oct. 15	3.50
*Jewell.....	(P)	Lavender Pink	Med.	Oct. 15	3.25
Dk. Jewell.....	(P)	Dark Lavender	Med.	Oct. 15	3.25

LARGE FLOWERING MUMS WHICH ARE NORMALLY GROWN IN THE GREENHOUSE, BUT ARE ALSO GOOD OUTSIDE, SHOULD BE DISBUDDED TO ONE BLOOM PER STEM.

WHITE

Silver Sheen.....	(M-Inc.)	White	Tall	Oct. 20	3.00
-------------------	----------	-------	------	---------	------

YELLOW

Harvest Golden.....	(M-Inc.)	Deep Golden	Tall	Oct. 10	3.50
Gold Lode.....	(M-Ref.)	Lemon	Tall	Oct. 15	3.00
Celestra.....	(M-Inc.)	Lemon	Tall	Oct. 15	3.25
Mrs. Kidder.....	(L-Inc.)	Deep Lemon	Tall	Oct. 15	3.00
Buttercup (H) (New)...	(M-Inc.)	Golden	Short	Oct. 15	7.50

BRONZE and RED

Mayford's Triumph.....	(M-Inc.)	Scarlet Orange	Tall	Oct. 10	3.50
Amber Bright.....	(M-Inc.)	Amber Bronze	Med.	Oct. 15	3.50
Chopin (New).....	(M-Inc.)	Light Bronze	Med.	Oct. 15	7.50

PINK and LAVENDER

Pink Chief.....	(L-Inc.)	Lavender	Tall	Oct. 15	3.00
Major Bowes.....	(L-Inc.)	Deep Lavender	Tall	Oct. 15	3.00

PINCHING SCHEDULE FOR GARDEN CHRYSANTHEMUMS

Natural Flowering Date	Pinching Date for Cut Flowers	Pinching Date for Border Plants
Sept. 1	June 14	July 12
Sept. 15	June 21	July 19
Sept. 30	June 28	July 26
Oct. 10	July 5	Aug. 2
Oct. 15	July 12	Aug. 9

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 92 FOR QUANTITY PRICES.

Gloekner Chrysanthemum Manual

Index of Varieties

A		K	
Acclaim	79	Kathleen Lehman	95
Adagio	85, 97	Kay Tashima	89
Admiral	83, 96	Keepsake	78
Admiration	95	King Midas	95
Albatross	88	Klondike	81
Alert	96	Kolowa	78
Alex Cummings	97	L	
Allegro	85, 97	Lakme	79
Almega	87	Lassie	85, 97
Ambassador	88	Lavender Lady	85, 97
Amber Glow	96	Lavender Queen	89
Amberina	84	Lee Powell	75, 80, 94
Anaconda	89	Legal Tender	84
Apache	95	Lemonade	80, 95
Apricot Queen	89, 91	Light Pk. Minstrel	87
Apricot Valencia	84	Lillian Doty	86
Arbutus	86	Limelight	93, 94
Arcadia	78	Linda Lou	86
Argonne	85, 97	Little America	79, 90
Argyle	77, 87	L. I. Beauty	79, 90
Arlora	75, 80, 90, 95	Lollipop	81
Arvis	93, 96	Lorraine	89
Autumn Song	95	Lotus	77, 86
Avalanche	78, 94	Lyric	94
Avalon	82, 96	M	
Aviator	96	Madonna	78
Aztec	75, 80	Maestro	78, 94
B		Magician	83
Ballerina	86	Magnificent	95
Bamboo	82, 96	Mahogany Cushion	95
Barbara Small	96	Mahogany Viking	85
Barcarole	81	Major Bowes	97
Beacon	96	Major Cushion	96
Beauregard	83	Majorette	87, 91
Beautiful Lady	87, 91	Malinda Brown	96
Belray	79	Mamoru	96
Betsy Ross	86, 88	Margaret Moeller	88, 90
Betty	85, 96	Marie De Petris	88, 90
Bittersweet	84	Marionette	82, 95
Blazing Gold	88, 90	Marketeer	88, 90
Blueblood	82, 96	Marshmallow	75, 78, 94
Blue Chip	77, 86, 91	Mary Garden	89
Bojangles	81	Mary L. Hall	80
Bokhara	96	Mary McArthur	86
Bonfire	82	Mason's Bronze	84
Bonnaffon Deluxe	88, 90	Mason's Red	84
Bourbon	84	Mason's Yellow	81
Bowl 'O Gold	94	Masquerade	85, 97
Brandywine	81	Masterpiece	86, 91
Brigadier	85, 95	Matchless	79
Brigadoon	81	Mayfair	76, 86
Bright Forecast	80, 95	Mayford's Triumph	96, 97
Brocade	87	Medallion	87
Bronze Buckingham	83	Melo	88
Bronze Daisy	83	Memorial	86
Bronze Dot	83	Merrymaker	85
Bronze Enchantress	84	Meteore	88
Bronze Frick	89	Miguel	96
Bronze Goldsmith	84	Ming	94
Bronze Linda Lou	84	Minong	78
Bronze Mary McArthur	83	Minstrel	87
Bronze Masterpiece	84	Minuet	87
Bronze Minstrel	85	Mme. Cadillac	95
Bronze Minuet	84	Mischief	97
Bronze Mistletoe	89	Mirth	76
Bronze Orchid Queen	89	Misty Maid	96
Bronze Pyramid	96	Mogul	82, 95
Bronze Riviera	85	Mona	82, 96
Bronze Thyra	84	Monarch	79
Bronze Tuxedo	84	Monument	88
Bronze Wonder	95	Moondrift	80
Buccaneer	83	Moonglow	78
Buckeye	76, 82, 95	Moonlight	80, 94
Buckskin	83	Moonmaid	76, 83, 96
Burgundy	95	Moribana	89
Butter Ball	88	Mrs. Calkins	88
Butter Ball (Hardy)	94	Mrs. Dewey	84
Buttercup (Hardy)	93, 95, 97	Mrs. DuPont	83, 96
Butterscotch	83	Mrs. Kidder	88, 90, 97
C		Mrs. Roy	89
Cadet	76, 84, 91		
Calcite	94		
Calico	82		
Calif. Wh. Daisy	78		
Calumet (Hardy)	93, 96		
Cameo	95		
Canary Wonder	94		
Candlelight	94		
Capt. John Smith	96		
Caravan	82, 96		
Cardinal Spoon	95		
Carmelita	83, 96		
Carmine Queen	83, 96		
Carnival	83, 96		
Carole	77, 87, 91		
Carolyn Yosick	86		
Carousel	84		
Carrara	79		
Cassandra	83		
Celestra	88, 97		
Cecil Beed	96		
Chalice	88		
Challenge	82		
Champagne	81		
Champion Cushion	95		
Chanticleer	84		
Chas. Nye	80, 94		
Chattanooga	88		
Chevron	84		
Chippewa	96		
Chiquita	95		
Chopin	93, 96, 97		
Christina	90		
Christmas Greeting	85		
Christmas Star	85		
Chris. Columbus	78, 94		
Cinderella	82		
Citation	76, 86		
Claret	85		
Classic	78, 94		
Cocktail	83, 96		
Comanche	83		
Commander Cushion	95		
Constellation	81		
Copperhead	84, 91		
Cordova	79		
Corona (Hardy)	93, 97		
Coronet	87		
Corsair	82		
Cottillion	79		
Cottonop	78		
Courageous	96		
Courtier	85, 97		
Cover Girl	77, 86, 91		
Cream Dot	80		
Cream Melo	88		
Cream Puff	75, 80		
Cream Snowcrest	82		
Crescendo	81		
Crimson Valencia	84		
Crystal Beauty	79		
Crystal Queen	88		
Cydonia	95		
D			
D. Ahrens	94		
Dalwin	89		
Dk. Br. Masterpiece	84, 91		
Dk. Br. Minstrel	85		
Dark Buckley	86		
Dark Enchantress	87		
Dark Ind. Yellow	90		
Dk. Orchid Queen	89		
Dark Jewell	97		
Dark L. I. Beauty	87		
Dark Ind. Bronze	89, 91		
Dark Linda Lou	86		
Dark Norma	87		
Dk. Pink Majorette	77, 87		
Dk. Yel. Chat'n'ga	77, 88		
Dark Valencia	87		
Dauntless	88, 90		
Dawn Rose	97		
Dazzler	84		
Debonair	84		
Debutante	87		
December Glory	88		
December Gold	82		
December White	88		
Defiance	87		
Defiance (Hardy)	94		
Detroit	83, 96		
Detroit News	89		
Dreamboat	86		
Dream Girl	85, 97		
Drifted Snow	94		
Dr. Graham	96		
Dr. Longley	96		
Dubonnet Valencia	87		
Dwight Douglas	95		
Dynamo	78		
E			
Early Bronze	95		
Early Gold	94		
Early Harvest	95		
Early Wonder	85		
Early Yellow	94		
Ed. Seidewitz	89		
Edith Roberts	86		
Elizabeth Hood	86, 97		
Enchantress	87		
Encore	78		
Enterprise	86, 97		
Ermine	94		
Eskimo	79		
Europa	84		
Evening Star	87		
F			
Fairbow	96		
Fairyland	76, 86, 91		
Falcon	84		
Fascination	97		
Fashion	96		
Festival	84		
Fiesta	95		
Firebird	83		
Firecracker	82, 95		
Firefly	83		
Fireside	83, 96		
Flame Glow	76, 83		
Flaxen Beauty	95		
Fortune	79		
Forty-Niner	81		
Freedom	75, 78		
Friendly Rival	88, 90		
G			
Gaiety	76, 83		
Gal. Betsy Ross	88		
Galaxy	84		
Garland	80, 95		
Garnet King	89		
Garza	79		
Gena Harwood	89		
Genista	94		
Gladness	96		
Gladys Pearson	89		
Glitters	89, 91		
Goblin	95		
Gold Braid	84		
Gold Coast	80		
Gold Lace	89, 90		
Gold Lode	88, 90, 95, 97		
Gold Rush	80, 95		
Gold Seal	82		
Golden Anniversary	82		
Golden Carpet	94		
Golden Chord	81		
Golden Glory	88, 90		
Golden Harvest	80, 81		
Golden Hours	94		
Golden Mensa	81		
Golden Mistletoe	88		
Golden Mrs. Ross	88		
Golden Pearson	88		
Goldenrod	81		
Golden Spoon	95		
Goldsmith	81		
Goldtone	82		
Gondillier (Hardy)	95		
Gondola	75, 80		
Good News	88		
Grand Slam	87		
Granite State	90		
Gypsy	91		
H			
Halo	78		
Harbinger	95		
Harlequin	96		
Harvester	88		
Harvest Golden	97		
Hasegawa Pink	87		
Heather Bloom	96		
Heirloom	79		
Helen Frick	89, 91		
Heritage	87		
Highbrow	79		
Highlander	81		
Hilarity	76, 83		
Hilda Bergen	89, 91		
Holiday	85		
Holiday (Hardy)	95		
Honeycomb	80, 94		
Honeydew	88, 90		
Honeymoon	75, 80		
Hooked Yel. Lace	89, 90		
Horizon	78, 94		
Huntsman	82, 96		
I			
Illini Bountiful	79		
Illini Brave	81		
Illini Burma	84		
Illini Formal	77, 87, 91		
Illini Gold	81		
Illini Honey	84		
Illini Igloo	78		
Illini Redhead	84		
Illini Redwood	76, 84		
Illini Rye	84		
Illini Snowbound	80		
Illini Snowdrift	79		
Illini Starlet	75, 79		
Illini Sunspot	81		
Illini Tangier	84		
Illini Warrior	84		
Ill. Yel. Snowbound	82		
Imp. Br. Daisy	83		
Imp. Bronze Supreme	85		
Imp. Dk. Supreme	87		
Imp. Early Wonder	96		
Imp. Ind. Yellow	88		
Imp. Red Daisy	83		
Imp. White Supreme	79		
Imp. Yellow Supreme	82		
Indiana Mkt.	88		
Ind. Bronze	89, 91		
Ind. Gold Bronze	91		
Ind. Pink	89, 91		
Ind. White	88, 90		
Ind. Yellow	88, 90		
Indian Head	84		
Irene	78, 94		
Ivanhoe	89		
J			
Jackpot	81		
Jamboree	88		
James Eadie	95		
James Stewart	83, 96		
Jean Elizabeth	88		
Jessie	86		
Jester	76, 86		
Jewell	86, 97		
Joybringer	85, 97		
Jubilee (Hardy)	95		
Judith Anderson	95		
J. W. Prince	89		

Gloekner Chrysanthemum Manual

Index of Varieties—Cont.

Mrs. S. P. Rotan	95	Pink Mistletoe	89	Rose Spoon	97	Starlight	75, 80	White Norma	79
Mrs. Stahelin	89	Pink Opal	96	Rosita	96	Sterling	88	White Pockett	88
Mrs. R. A. Walker	89	Pink Pockett	89	Rouge Cushion	95	Success	96	White Popcorn	78
Muto's Crimson	89, 91	Pink Sprite	86	Royal Bronze	91	Sugarplum	89	White Rayonnante	89
Myrtle Walgreen	97	Pink Surprise	97	Royal Robe	96	Sunapee	94	White Spoon	94
N									
Nagana	79, 87	Pinky	87	Rubicon	83	Sunglow	88, 90	Whitewall	75, 78
Navaho	79, 83	Pinocchio	81	Ruby Pompon	96	Sungold	88, 90	White Tower	94
Nobility	77, 86	Pippin	81	Rusticon	84	Sunstone	93, 95	White Valencia	79
Nocturne	83, 96	Pixie	81	S					
Nokomis	83, 96	Poinsettia	85	Salmon Masterpiece	86, 91	Sunnyside	81	White Wonder	78, 94
Nomago	89	Polar Ice	94	Salmon Precose	96	Sunkist	82	Wilson's White	90
Norona	78, 94	Polaris	80, 95	Salmon Valencia	87	Sunray	80	Winterset (Hardy)	94
Nosegay	81	Polka	77, 87, 91	Salute	85	Sunrise	82	Witchery	83, 96
Nugano	77	Pomponette	94	Samovar	84	Sunup	80	W. P. Snyder	82, 95
Nuggets	81	Ponca	85, 97	Sam Williston	95	Susanne Miller	81	Wychwood	94
Nye's Favorite	96	Popcorn	78	Sarong	85	Swan	79	Y	
Nytoda	83, 96	Portrait	77, 86, 91	Sarasota	93, 95	Sweepstake	80, 95	Yellow Ambassador	88, 94
O									
Oakdale	89	Powderpuff	94	Satellite	79	Sweetheart	85	Yellow Arcadia	80
Oak Leaf	89	Prelude	77, 86	Sauterne	75, 80	Sylvanna	84	Yellow Beauty	90
October Pink	86	Princeton	81	Scarlet Crimson	95	Symmetry	81	Yellow Bergen	88, 90
Old Gold	95	Princess	87	Schn. Yellow Daisy	80	T			
Olive Longland	96	Priscilla	79	Sculpture	79	Tacoma	81	Yellow Blanket	95
Omega	81	Pristine	78	Seafoam	79	Taffeta	86	Yellow Cameo	82
Or. Beauregard	76, 83	Purdue	88, 90	Sea Gull	78	Talisman	76, 83	Yellow Cassandra	80
Orchid Beauty	87	Purple Star	96	Seneca	83	Talmeda	75, 80	Yellow Chat'n'ga	88
Orchid Helen	96	Q							
Orchid Queen	89	Queen of Pinks	90, 91	Sept. Bronze	95	Tangerine	95	Yellow Cordova	81
Orchid Spoon	85, 97	Queen's Lace	89	Sept. Cheer	95	Tapestry	96	Yellow Cushion	94
Orchid Valencia	87	R							
Ordealia	75, 80, 90	Rainbow	86	Sept. Dawn	96	Tempo	77, 86	Yellow Daisy	80
Orloma	95	Rajah	83, 96	Sept. Morn.	78	Thanks-Pink	89	Yellow Dot	80
Orpheus	96	Rayonnante	89	Sept. Sunshine	94	The Chief	96	Yellow Doty	80
Orsona	95	Red Cloud	95	Sequin	82	Thelma	84	Yellow Fellow	81
Osage	94	Red Daisy	83	Serenade	85, 97	The Titan	84	Yellow Fortune	75, 81
Ostosa	93, 94	Red Glitters	89, 91	Serrated Riviera	87	Thorobred	81	Yellow Galaxy	81
Overly	95	Red Glow	83, 95	Shalimar	84	Thyra	86, 91	Yellow Garza	82
P									
Pacesetter	75, 78	Red Gold	95	Shalimar (Hardy)	94	Tiffany Rose	97	Yellow Halo	80
Pageantry	85	Red King	76, 84, 91	Shamrock	82	Time	97	Yellow Highbrow	81
Palette	76	Red Princeton	84	Shasta	78	Tobin's Yellow	88	Yellow Irene	95
Pandora	86	Red Riding Hood	95	Shooting Star	78	Topaz	85	Yellow Lace	89, 90
Panorama	82, 96	Red Rolinda	84, 91	Silver Ball	94	Treasure	80, 95	Yel. L. Beauty	81
Paper White	94	Red Rust	83	Silver Cloud	75, 78	Trenton	75, 79	Yellow Marketeer	88, 90
Paradise	76, 83	Red Seneca	83	Silver Sheen	88, 97	Tuxedo	86	Yellow Mefo	88
Paragon	84	Red Supreme	85	Silver Plate	78, 94	V			
Paramount	79	Red Velvet	82, 96	Silversmith	79	Valencia	87	Yellow Moeller	88, 90
Pathfinder	94	Regina	93, 95	Silvertone	75, 78	Vanguard	95	Yellow Monument	88
Patricia Lehman	96	Remembrance	95	Siren	82	Vesper	79	Yellow Nagana	81
Peggy Ann Hoover	89	Renown	78, 94	Smith's White	88	Vibrant	82	Yellow Nevada	81
Pennant	77, 86	Revelation	80	Smith Superlative	88, 90	Violet	96	Yel. Paramount	75, 81
Pepita	94	Reverly	82	Snow	80	Vivacious Lady	87	Yellow Pockett	88
Petrisian, Mauve, Pink, Rose	76, 85, 97	Rev. Bushnell	78	Snowcap	79	Vogue	77, 86	Yellow Queen	88
Pink Beauty	96	Reverie	95	Snowcrest	79	W			
Pinkette	77, 86	Reward	86	Snowdrop	79	Waikiki	89	Yellow Shasta	81
Pk. California Daisy	86	Richard Mandel	90	Snow Elf	94	Wanakah	84	Yellow Snow	82
Pink Chief	89, 97	Riviera	87	Snowfall	94	Welcome	96	Yellow Snowcap	75, 82
Pink Cloud	77, 87	Robinhue	83, 96	Snowflurry	79	White Anemone	78	Yellow Snowcrest	82
Pink Dot	86	Rodell Imp.	95	Snowline	88	White Bounty	94	Yellow Spangles	82
Pink L. I. Beauty	87	Ronnie	85, 97	Snow Queen	79	White Chief	88	Yellow Spoon	80, 95
		Rosa	96	Songster	78	White Cloud	78, 94	Yel. Supreme (Hardy)	94
		Rosalind	87	Sonnet	76, 85	White Cushion	94	Yellow Valencia	81
		Rose Masterpiece	86, 91	Soprano	86	White Doty	78	Yellow Swan	81
		Rose Medalion	87	Spangles	79	White Frick	88, 90	Yolanda	84
				Spellbound	85, 96	White Lady	79, 90	Youdath's White	94
				Spin Drift	94	White Mensa	78	Yukon	79
				Starbright	80	White Mistletoe	88	Yuleflame	82

Contents

ACIDITY	59	DISEASES AND THEIR CONTROL	72-73	LIGHT INTENSITY	62	POT PLANT CONTINUOUS SCHEDULE	43-57	SOLUBLE SALTS	61
AERATION	60	DODDER	74	LIGHTING SCHEDULE	1	POT PLANT VARIETIES	90-91	SOW BUGS	70
AIR FREIGHT	58	FERTILIZERS	41, 61	MEALY BUGS	69	PREMATURE BUDDING	58	SOUTHERN CULTURE	67
ANEMONE VARIETIES	78-87	FLOWERING SCHEDULE	3-40	MIDGE	68	PRICE TABLE	92	SPIDER VARIETIES	89
APHIDS	68	FOLIAR NEMATODE	72	MILDEW	72	PRUNING	63	STANDARD VARIETIES	88-89
BLINDNESS	66	GARDEN VARIETIES	94-97	MITES	73	RAY BLIGHT	73	STEAM STERILIZATION	59
CHEMICAL STERILIZATION	59	GRAFT INDEXING	65	MOTHER'S DAY POT PLANTS	72, 73	RED SPIDER	70	STEM ROT	72
CLOTH HOUSES	67	INSECTICIDES AND FUNGICIDES	back cover	NEMATODE	72, 73	RESPONSE GROUP	1	SUPPORTS	67
COLLAR ROT	72	INSECTS AND THEIR CONTROL	68-71	NEW INTRODUCTIONS	75-77	ROOT KNOT NEMATODE	73	SYMPHYLIDS	70
COMBINATION SPRAYS	79	INTERRUPTED LIGHTING	2	PETAL BURN	66	RUST	73	TAKING BUD	64
CORN EAR WORM	74	LARGE FLOWERED VARIETIES	88-89	PESTS AND THEIR CONTROL	72, 74	SEPTORIA LEAF SPOT	73	TEMPERATURE	2, 41, 66
CULTURAL POINTERS	59-67	LEACHING	65	PINCHING	42, 63	SHADING INFORMATION	2, 41	TERMITES	71
CUTTINGS	58	LEAF MINER	68	PLANTING	42, 62	SHADING SCHEDULE	1	THRIPS	71
CUT WORMS	61	LEAF TYER	69	POMON VARIETIES	78-87	SHIPPING FLOWERS	66	TIME PINCHING	63
DAYLENGTH CONTROL	1			POT PLANT CULTURE	41	SINGLE-STEM METHOD	62	VERTICILLIUM WILT	73
DECORATIVES	78-87					SINGLE VARIETIES	78-87	VIRUSES	74
DELIVERIES	58					SOIL MANAGEMENT	41, 59, 60	WATERING	41, 65
DISBUDDING	41, 64								

Gloeckner Chrysanthemum Manual

Flower Holiday Calendar

St. Valentine's Day • Easter • Mothers' Day • Memorial Day • Thanksgiving • Christmas

1954		1955	
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
JAN. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	JULY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	JAN. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	JULY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
FEB. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	AUG. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	FEB. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	AUG. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
MAR. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	SEP. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	MAR. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	SEP. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
APR. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	APR. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
MAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	NOV. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	MAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	NOV. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
JUNE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	DEC. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	JUNE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	DEC. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

SHADING CLOTH PRICES
AVAILABLE ON REQUEST

Gloeckner Chrysanthemum Manual

Insecticides, Fungicides and Fumigants

Aramite 15 W	4 lb. bag	3.20
Deenate 50 W (DDT)	4 lbs. 2.25	48 lb. Case 21.60 (12-4 lb. bags)
Fermate	3 lbs. 2.45	Case (36 lbs.) 25.80
Carton (24 cans)		
Fulex Parathion Fumigators	1,000 cu. ft. 9.00	5,000 cu. ft. 12.00
For Red Spiders, Aphids, and Thrips	2,000 cu. ft. 9.00	10,000 cu. ft. 15.00
		20,000 cu. ft. 24.00
Fulex Aphid-Smoke Fumigators	1,000 cu. ft. 9.00	5,000 cu. ft. 12.00
For Aphids and Adult White Flies	2,000 cu. ft. 9.00	10,000 cu. ft. 15.00
		20,000 cu. ft. 24.00
Fulex Spider-Mite Fumigators		
For Red Spiders, including some Parathion-resistant strains on carnations, chrysanthemums and snapdragons	1,000 cu. ft. 9.00	5,000 cu. ft. 12.00
	2,000 cu. ft. 9.00	10,000 cu. ft. 18.00
		20,000 cu. ft. 30.00
Isotox 1 (supplied in 50 lb. bags only)	50 lbs. 8.50	
Lindane (Jamttox) 1½% Dust		50 lbs. (min.) 11.70
25% Wettable Powder		4 lbs. 11.00
Nicofume Liquid		gallon (8 lbs.) 11.95
Nicofume Pressure Fumigators	½ lb. cans (12 cans)	4.60
	1 lb. cans (12 cans)	7.95
NNOR		gal. 10.00
Optox (10% DDT)		gal. 12.00
Orthocide 50 W	5 lbs. 5.70	50-lb. drum 54.00
Plantfume 103	5,000 cu. ft. carton — 36	10.50
	20,000 cu. ft. carton — 12	12.00
Parathion Spray 15% Wettable		4-lb. bag 3.50
Parzate (Powder)	3 lb. bags 2.85	Case (36 lbs.) 31.20
(Liquid)		5 gal. cans 9.50
P-40	25 lbs. 7.25	50 lbs. 13.75
		100 lbs. 26.00
Rhothane (DDD) 50% Wettable Powder	4-lb. carton 2.00	50 lbs. 23.00
Sodium Selenate		1 lb. 7.00
Systox (Emulsion)	1 qt. 10.00	1 gal. 32.00
Vapotone XX		1 gal. 12.00
Zerlate	3 lbs. 2.45	case (36 lbs.) 25.80

For your other needs refer to your

Carnation Manual and

Gloeckner

Seed Catalog

INDEX *Gloeckner* CHRYSANTHEMUM MANUAL

	Pages
CULTURAL POINTERS	1 - 3
January Flowering	4 - 8
February " 	9 - 12
March " 	13 - 16
April " 	17 - 20
May " 	21 - 24
June " 	24 - 25
July " 	26 - 27
August " 	27 - 28
September " 	29 - 30
October " 	30 - 32
November " 	32 - 36
December " 	37 - 40

Year-Around Flowering Schedules

CULTURAL POINTERS	41 - 42
ONE-PINCH METHOD Flowering Schedule	43 - 54
TWO-PINCH METHOD Flowering Schedule	55 - 57

Pot Plant Flowering Schedule

GENERAL CULTURAL POINTERS	58 - 67
INSECTS AND CONTROL	68 - 71
PESTS AND CONTROL	72 - 74
DISEASES AND CONTROL	72 - 73

New Greenhouse Varieties	75 - 77
White Pompons	78 - 79
Yellow Pompons	80 - 82
Bronze Pompons	82 - 85
Pink Pompons	85 - 87
White Standards	88
Yellow Standards	88
Bronze, Pink Standards	89
Spider Types	89
Pot Plant Varieties	90 - 91
Garden Varieties	93 - 97

Classified Listing of Varieties

PRICE TABLE	92
VARIETY INDEX	98 - 99
TABLE OF CONTENTS	99
CALENDAR	100
INSECTICIDES	Inside Cover

HOW TO USE THIS INDEX IT'S QUICK AND EASY

With the index facing you, fold Manual back so that the pages fan out to the left.

Find the data you are looking for on the index.

With the thumb of your left hand, open Manual at the single or double line on the fanned pages opposite the item you are looking for.